

KENNETH C. BALDWIN

280 Trumbull Street
Hartford, CT 06103-3597
Main (860) 275-8200
Fax (860) 275-8299
kbaldwin@rc.com
Direct (860) 275-8345

Also admitted in Massachusetts
and New York

July 5, 2022

Melanie A. Bachman, Esq.
Executive Director/Staff Attorney
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: **Notice of Exempt Modification – Facility Modification
330 Pokorny Road, Haddam (Higganum), Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a lattice telecommunications tower and associated equipment on the ground near the base of the tower. The existing lattice tower was approved by the Siting Council (“Council”) in May of 2012 (Petition No. 1027) as a replacement of a then-existing guyed lattice tower at the Property. Cellco’s use of the lattice tower was approved by the Council in October of 2016 (PE1133-VER-20160912). Copies of the Council’s approvals in Petition No. 1027 and Sub-Petition PE1133-VER-20160912, are included in Attachment 1.

Cellco now intends to modify its facility by removing three (3) existing antennas and installing three (3) new Samsung MT6407-77A antennas on the existing antenna mounts. A set of project plans showing Cellco’s proposed facility modifications and new antennas specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Haddam’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
July 5, 2022
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The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing tower. The replacement antennas will be installed on Cellco's existing antenna mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing lattice tower, tower foundation and antenna mounts, with certain modifications, can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and property owner is included in Attachment 6.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Melanie A. Bachman, Esq.
July 5, 2022
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Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

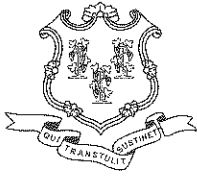
Kenneth C. Baldwin

Enclosures

Copy to:

Robert McGarry, Haddam First Selectman
Bill Warner, Town Planner
Connecticut Light & Power (Eversource), Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

www.ct.gov/csc

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

May 10, 2012

John R. Morissette
Manager - Transmission Siting and Permitting
Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270

RE: **PETITION NO. 1027** - The Connecticut Light and Power Company petition for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed replacement of an existing tower located at 330 Porkony Road, Haddam, Connecticut.

Dear Mr. Morissette:

At a public meeting held on May 10, 2012, the Connecticut Siting Council (Council) considered and ruled that this proposal would not have a substantial adverse environmental effect, and pursuant to General Statutes § 16-50k would not require a Certificate of Environmental Compatibility and Public Need.

This decision was made with the condition that CL&P submit a Development and Plan indicating where plantings would be located to provide some additional screening for the facility. This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the petition, dated April 5, 2012.

Enclosed for your information is a copy of the staff report on this project.

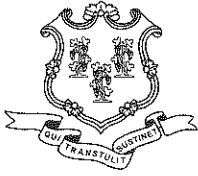
Very truly yours,

Robert Stein
Chairman

RS/CDM/laf

Enclosure: Staff Report dated May 10, 2012

c: The Honorable Paul J. DeStefano, First Selectman, Town of Haddam
Liz Glidden, Town Planner, Town of Haddam



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Petition No. 1027
Connecticut Light & Power
Haddam, Connecticut
Staff Report
May 10, 2012

On April 5, 2012, the Connecticut Siting Council (Council) received a petition from The Connecticut Light & Power (CL&P) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the proposed replacement of an existing guyed lattice communications tower in Haddam, Connecticut. Council member Phil Ashton and Siting Analyst David Martin visited the site on May 4, 2012 to review the proposal. John Morissette and Steve Florio represented CL&P at the field review.

CL&P currently owns and operates a 280-foot guyed lattice wireless communications tower at 330 Pokorny Road in Haddam. The tower is host for a number of different antennas for several different users, including CL&P, the Connecticut State Police, Valley Shore Communications, and Sprint/Nextel. It provides critical microwave communication links for both CL&P and the State Police. A detailed structural analysis of the existing tower determined that it was overstressed and that there was no practical way of reinforcing the tower to bring it into compliance with state building code and CL&P engineering requirements.

CL&P proposes to replace the existing tower with a self-supporting lattice tower at the same height. The center of the replacement tower would be located approximately 50 feet to the west of the existing tower, which is the only location where it is possible to erect the new tower between the existing guy wires. CL&P would relocate the antennas on the existing tower onto the replacement tower. The replacement tower would also include a yield point to effectively reduce its potential fall zone and would be lit to comply with FAA requirements.

There are two fence lines on the CL&P property on which the existing tower is located. An outer fence encloses the locations where the guy wires are anchored to the ground. A smaller, inner fence encloses the existing tower and several equipment shelters. This inner fence would have to be extended a short distance to surround the proposed replacement tower. But the outer fence would remain at its current dimensions.

A number of large, single family homes have been built in the area surrounding CL&P's tower within the last twenty years. However, mature deciduous trees around the perimeter of CL&P's property help to minimize the visible impact of the tower on the nearest homes. Council member Ashton recommended that CL&P submit a D&M plan to show additional evergreen trees that would be planted within the facility's outer fence to help augment the existing vegetative screening of the tower.

The proposed replacement tower is not expected to have any substantial adverse environmental impacts. In fact, eliminating the existing guy wires will greatly reduce this wireless communications tower's potential for causing bird fatalities.



STATE OF CONNECTICUT

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October 11, 2016

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Street
Hartford, CT 06103-3597

RE: **PE1133-VER-20160912** – Cellco Partnership d/b/a Verizon Wireless sub-petition for a declaratory ruling for approval of an eligible facility request for modifications to an existing telecommunications facility located at 330 Pokorny Road, Haddam, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby approves your Eligible Facilities Request (EFR) to install antennas and associated equipment at the above-referenced facility pursuant to the Federal Communications Commission Wireless Infrastructure Report and Order, with the following conditions:

1. Prior to commencement of installation, Cellco shall provide one copy of the Structural Analysis Report to the Council referencing Revision G of the *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures* as adopted by the Connecticut State Building Code effective October 1, 2016;
2. All coax cables shall be routed as specified in Section 3 of the Structural Analysis Report prepared by Centek Engineering, Inc. dated April 9, 2015 and stamped by Timothy Lynn or subsequent structural analysis report in accordance with Revision G as stated in the condition above;
3. Within 45 days following completion of equipment installation, Cellco shall provide documentation that its installation complied with the recommendations of the structural analysis;
4. Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
5. Any nonfunctioning antenna and associated antenna mounting equipment on this facility owned and operated by the Petitioner shall be removed within 60 days of the date the antenna ceased to function;
6. The validity of this action shall expire one year from the date of this letter; and
7. The Petitioner may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

This decision is under the exclusive jurisdiction of the Council and is not applicable to any other modification or construction. All work is to be implemented as specified in the EFR dated September 9, 2016.

Thank you for your attention and cooperation.

Very truly yours,

Melanie Bachman
Acting Executive Director

MB/CW

c: Honorable Lizz Milardo, First Selectman, Town of Haddam
Elizabeth Glidden, Town Planner, Town of Haddam

S:\PETITIONS\1101-1200\1133\3_Subpetitions_ByTown\Haddam\PokornyRd\VERIZON\P1133-VER-20160912-dctr-pokornyrd-haddam.docx



ATTACHMENT 2



VICINITY MAP

SCALE: N.T.S.

APPROXIMATE LATITUDE: N41° 26' 36.89"
 COORDINATES: LONGITUDE: W72° 33' 58.89"

NOTE:

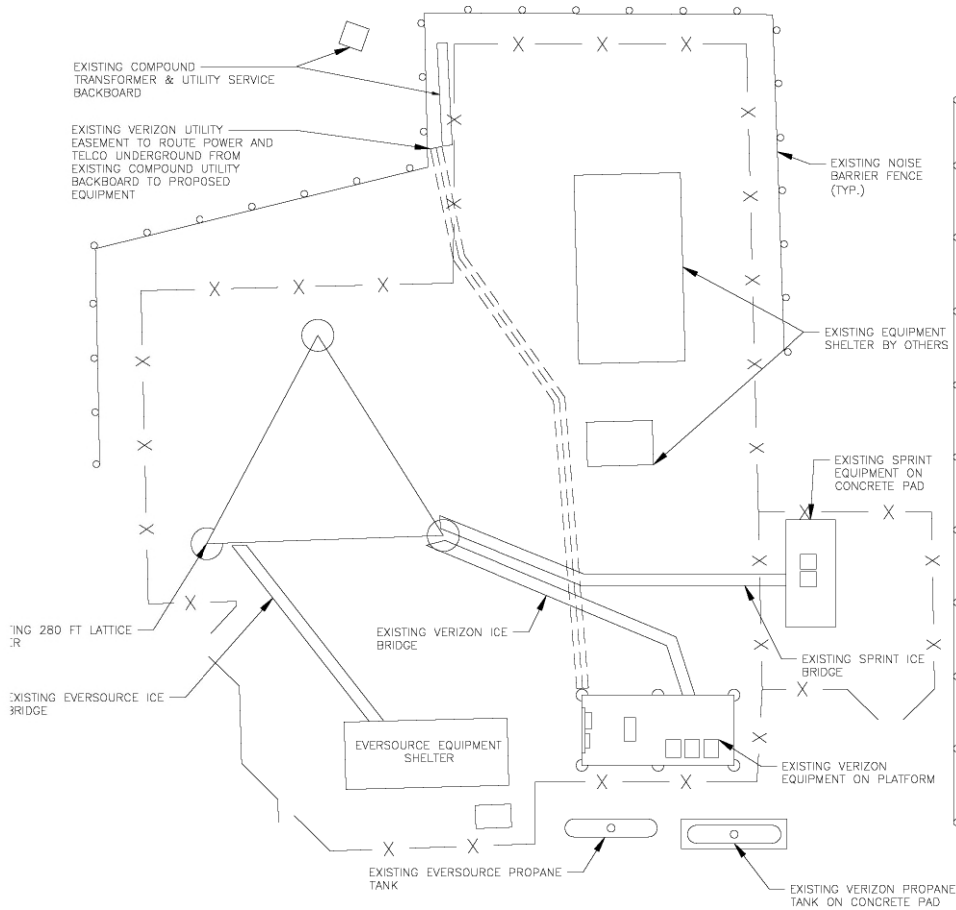
AN ANALYSIS OF THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY PAUL J. FORD & COMPANY DATED: AUGUST 3, 2021

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING ANTENNA MOUNT TO SUPPORT THE PROPOSED LOADING IS BASED UPON THE LATEST MOUNT ASSESSMENT BY MASER CONSULTING P.A.

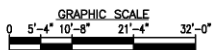
NOTE:

PROPOSED MT6407-77A ANTENNA SIZE AND WEIGHT ARE NOT TO EXCEED:
 DIMENSIONS H35.12"xW16.06"xD5.51"
 WEIGHT (INCLUDING INTEGRATED RRH) 87.1 LBS



COMPOUND PLAN
 22x34 SCALE: 3/32"=1'-0"
 11x17 SCALE: 3/64"=1'-0"

1
 A-1



FIELD INSPECTION DATE: 02-19-2021

SCOPE

- EXISTING (3) ANTENNAS TO BE REMOVED, EXISTING (9) ANTENNAS TO REMAIN, INSTALL (3) PROPOSED ANTENNAS PER 'RF'.
- EXISTING (6) RRH'S TO REMAIN, INSTALL (3) PROPOSED RRH'S PER 'RF'.
- EXISTING (3) 6-OVP TO REMAIN PER 'RF'.
- EXISTING (3) 6x12 LI HYBRID CABLES TO REMAIN PER 'RF'.
- ALL REPLACEMENT ANTENNAS TO MATCH EXISTING CONDITION & HEIGHTS.
- RECONFIGURE/RELOCATE EXISTING ANTENNA MOUNTS AS NECESSARY TO ACCOMMODATE HORIZONTAL SEPARATION, PROPOSED AZIMUTHS, AND ANTENNAS CONFIGURATION.

NEW ANTENNA CONFIGURATION

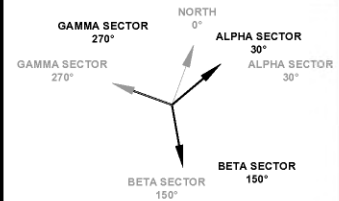
NOTE TO GENERAL CONTRACTOR:

'RF' DESIGN AND EQUIPMENT IS BASED UPON RFDS ISSUED BY VZW DATED: MAY 24, 2022 REVISION #2.
 THE CONTRACTOR OF RECORD SHALL CONTACT VZW PRIOR TO ANY AND ALL ORDERING/PURCHASING/INSTALLATION OF EQUIPMENT TO VERIFY THAT THE 'RF' LISTED IN THE DRAWING SET IS CURRENT AND UP TO DATE.

NOTES

- NORTH SHOWN AS APPROXIMATE.
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
- ANTENNAS WILL BE CAMOUFLAGED WITH 3M WRAP, AS NEEDED, PER VERIZON WIRELESS AND BUILDING OWNER'S APPROVAL.
- PRIOR TO COMMENCEMENT OF ANY WORK, PROPOSED ANTENNA INSTALLATION IS PURSUANT TO FINDINGS DICTATED IN STRUCTURAL ANALYSIS. STRUCTURAL ANALYSIS TO VERIFY CAPACITY OF EXISTING STRUCTURE TO ENSURE STRUCTURAL INTEGRITY FOLLOWING INSTALLATION OF PROPOSED ANTENNAS, COAX CABLES AND REQUIRED HARDWARE. COPY OF STRUCTURAL ANALYSIS TO BE SENT TO DESIGN ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, VERIZON WIRELESS ANTENNA MOUNT LOCATION AND ANTENNAS TO BE INSTALLED.
- CONTRACTOR SHALL NOTIFY ENGINEERS IF FIELD CONDITIONS DIFFER FROM DESIGN.
- RAD CENTERS MEASURED IN THE FIELD WITH LASER BY HDG. RAD CENTERS MAY NOT MATCH RF ANTENNA DESIGN SHEET.

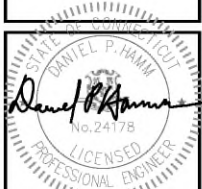
ANTENNA ORIENTATION



PREPARED FOR: CELCO PARTNERSHIP D.B.A.



45 BEECHWOOD DRIVE TEL: (978) 557-5553
 N. ANDOVER, MA 01846 FAX: (978) 334-5584



CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	05/12/21	ISSUED FOR CONSTRUCTION	SLY

SITE NAME:
 HIGGANUM SOUTH CT
 SITE ADDRESS:
 330 POKORNY ROAD
 HIGGANUM, CT 06441

SHEET TITLE
 COMPOUND PLAN

SHEET NUMBER
 A-1

TOP OF TOWER
ELEV. = 280'-0"± (AGL)

☉ OF EXISTING/PROPOSED
VERIZON ANTENNAS
ELEV. = 145'-0"± (AGL)

EXISTING OVP TO REMAIN PER 'RF'

EXISTING WHIP ANTENNAS TO REMAIN (TYP.)

EXISTING CARRIER ANTENNAS TO REMAIN

EXISTING ANTENNAS TO REMAIN PER 'RF'

EXISTING RRHs TO REMAIN PER 'RF'

PROPOSED MT6407-77A PER 'RF'
MOUNTED EXISTING PIPE MOUNT

EXISTING DISH ANTENNAS TO REMAIN (TYP.)

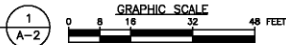
EXISTING LATTICE TOWER

NOTE:
GROUND EQUIPMENT NOT
SHOWN FOR CLARITY

EXISTING GRADE
ELEV. = 0'-0"± (AGL)

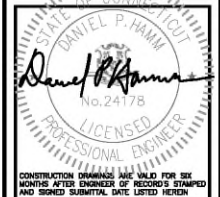
ELEVATION

22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"



NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE
EXISTING ANTENNA MOUNT TO SUPPORT THE
PROPOSED LOADING IS BASED UPON THE LATEST
MOUNT ASSESSMENT BY MASER CONSULTING P.A.

NOTE:
AN ANALYSIS OF THE CAPACITY OF THE
EXISTING STRUCTURE TO SUPPORT THE
PROPOSED LOADING HAS BEEN COMPLETED
BY PAUL J. FORD & COMPANY
DATED: AUGUST 3, 2021



CHECKED BY: JX
APPROVED BY: DPH

SUBMITTALS

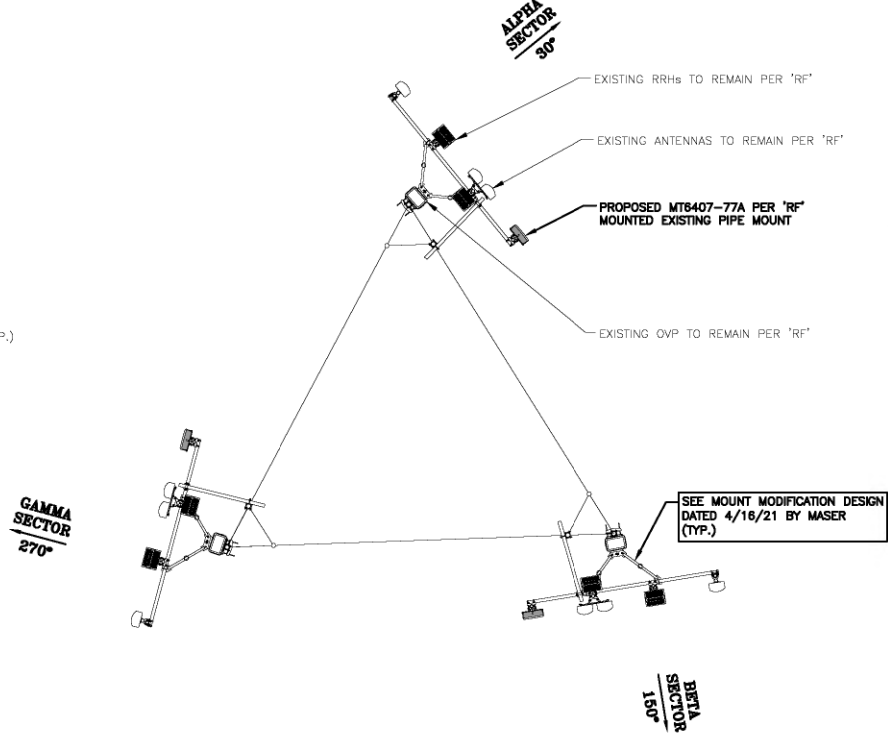
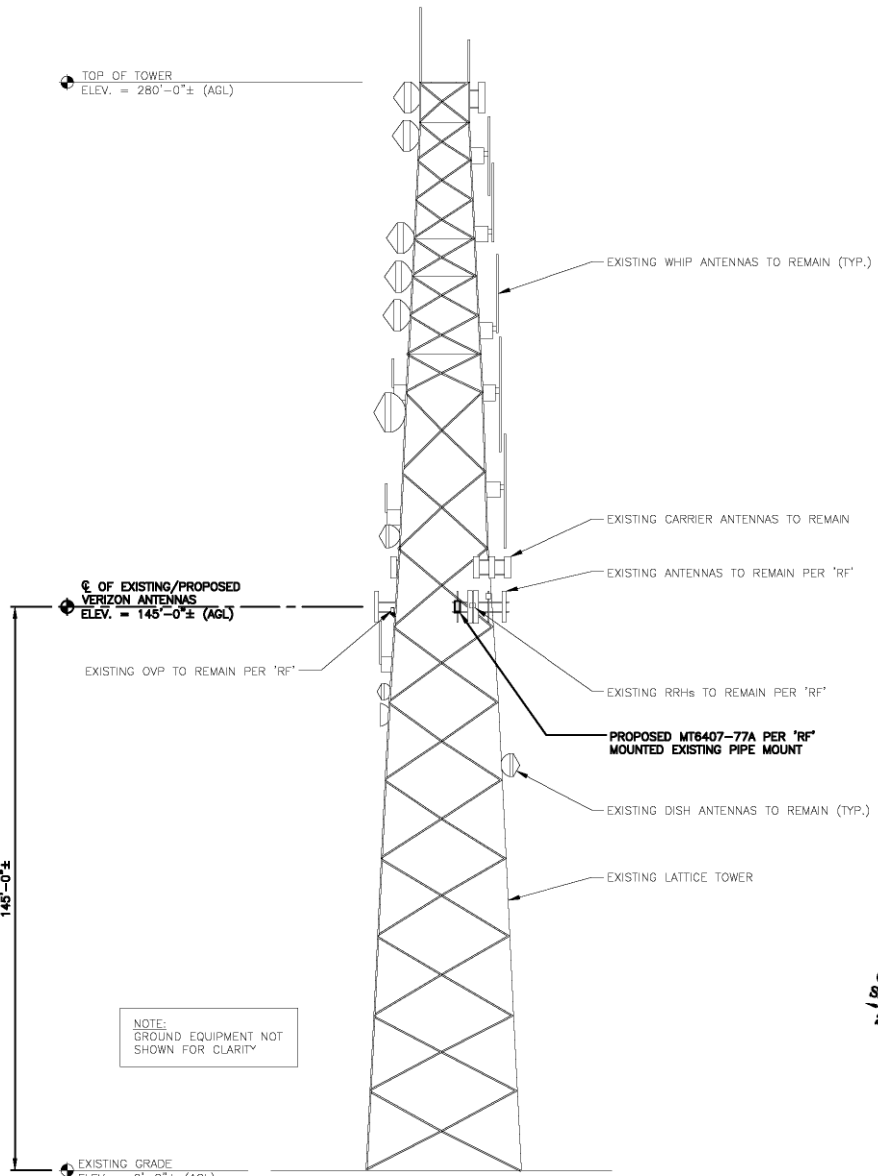
REV.	DATE	DESCRIPTION	BY
0	05/12/21	READY FOR CONSTRUCTION	SLY

SITE NAME:
HIGGANUM SOUTH CT

SITE ADDRESS:
330 POKORNY ROAD
HIGGANUM, CT 06441

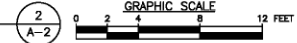
SHEET TITLE
ELEVATION AND
ANTENNA PLAN

SHEET NUMBER
A-2



ANTENNA PLAN

22x34 SCALE: 1/4"=1'-0"
11x17 SCALE: 1/8"=1'-0"



STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.J. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1/2" x 1/2" x 1/8" x 12GA. UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-5-325, GROUP II, TYPE A, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):

GENERAL: WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.



THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

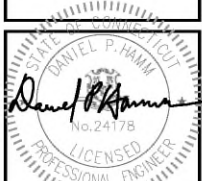
REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

SPECIAL INSPECTION CHECKLIST	
BEFORE CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	ENGINEER OF RECORD APPROVED SHOP DRAWINGS ¹
REQUIRED	MATERIAL SPECIFICATIONS REPORT ²
N/A	FABRICATOR NDE INSPECTION
REQUIRED	PACKING SLIPS ³
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS ⁴
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION ⁵
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT
ADDITIONAL TESTING AND INSPECTIONS:	
AFTER CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS ⁶
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	
NOTES:	
<ol style="list-style-type: none"> REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL BOLTS OR STEEL. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE. ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 308.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 308.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE. 	
NOTES:	
<ol style="list-style-type: none"> ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4" A325-X BOLTS, UNLESS OTHERWISE NOTIFIED. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION. VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE. 	

PREPARED FOR: CELCO PARTNERSHIP D.B.A.

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01846
TEL: (978) 557-5553
FAX: (978) 334-6584



CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	05/12/21	ISSUED FOR CONSTRUCTION	SLY

SITE NAME:
HIGGANUM SOUTH CT

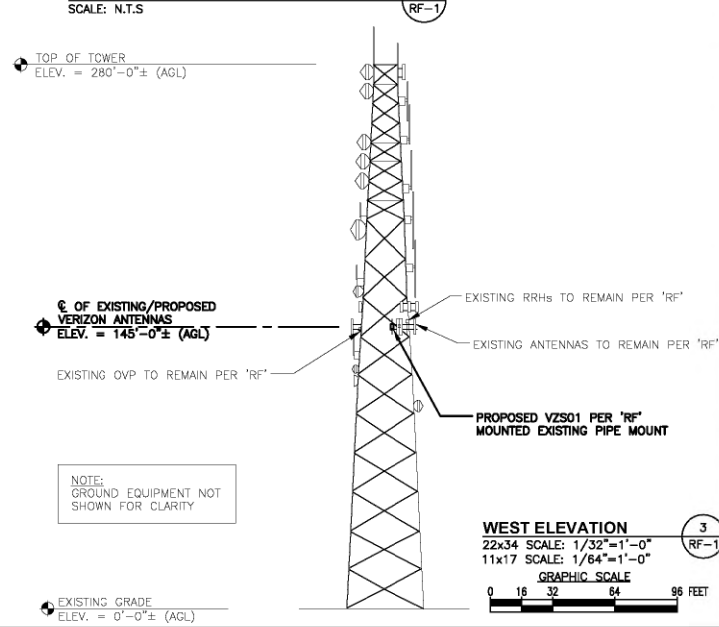
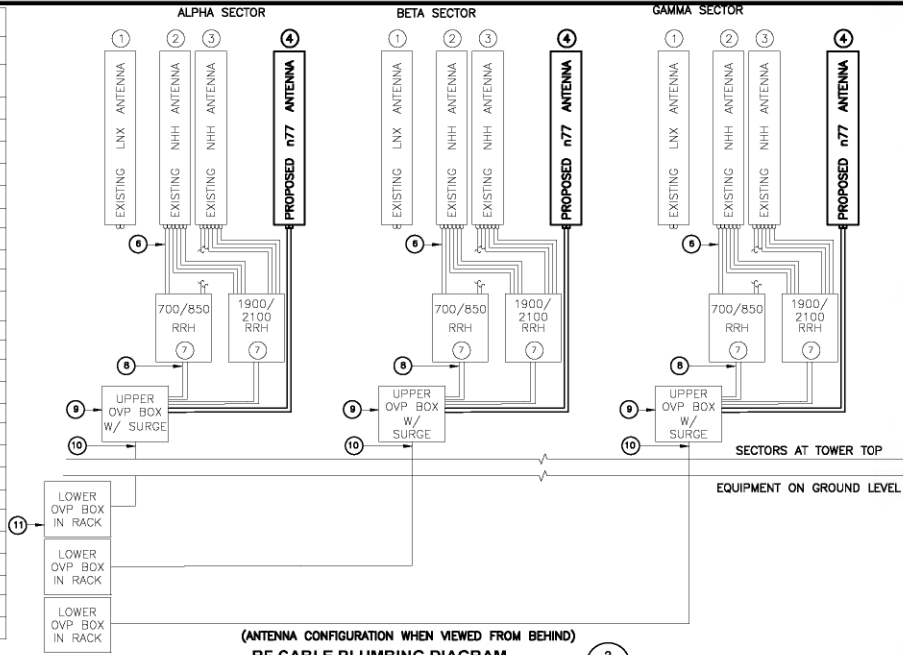
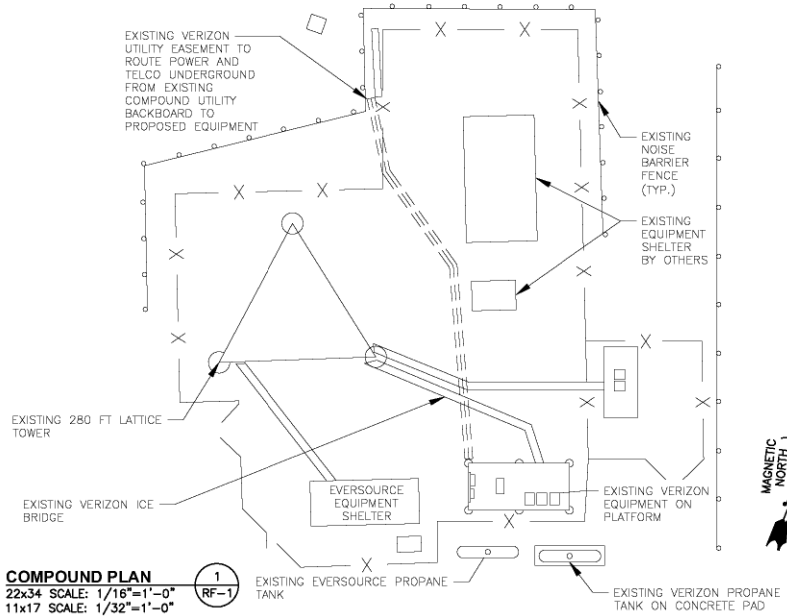
SITE ADDRESS:
330 POKORNY ROAD
HIGGANUM, CT 06441

SHEET TITLE
STRUCTURAL NOTES
&
SPECIAL INSPECTIONS

SHEET NUMBER
SN-1

BILL OF MATERIALS				
SITE NAME: HIGGANUM SOUTH CT				
ITEM	DESCRIPTION	QTY	LENGTH	COMMENTS
①	EXISTING LNX-6515D5-A1M ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
②	EXISTING NHH-65C-R2B ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
③	EXISTING NHH-65C-R2B ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
④	PROPOSED MT6407-77A RRH WITH CLIP-ON ANTENNA	3		MOUNTED TO EXISTING PIPE MAST
⑤				
⑥	EXISTING COAX JUMPERS	36	6 FT.	ROUTED FROM RRH TO ANTENNA
⑦	EXISTING LTE 700/850 RRH	3		SAMSUNG RRH B5/B13 RRH-BR04C PIPE MOUNTED
⑦	EXISTING PCS/AWS 1900/2100 RRH	3		SAMSUNG RRH B2/B66A RRH-BR049 PIPE MOUNTED
⑧	PROPOSED SAMSUNG FIBER JUMPER CABLES	3	15 FT.	ROUTE FROM OVP TO RRH
⑧	PROPOSED SAMSUNG POWER JUMPER CABLES	3	15 FT.	ROUTE FROM OVP TO RRH
⑨	EXISTING UPPER OVP	3		MOUNTED TO PIPE MAST
⑩	EXISTING 6x12 LI HYBRID CABLES	1	230 FT.	ROUTE FROM EQUIPMENT TO ANTENNA SECTOR
⑩	EXISTING 6x12 LI HYBRID CABLES	1	230 FT.	ROUTE FROM EQUIPMENT TO ANTENNA SECTOR
⑩	EXISTING 6x12 LI HYBRID CABLES	1	230 FT.	ROUTE FROM EQUIPMENT TO ANTENNA SECTOR
⑪	EXISTING LOWER OVP	3		RACK MOUNTED INSIDE SHELTER

THE ABOVE RF-BOM SHEET IS BASED ON INFORMATION LISTED ON ANTENNA RECOMMENDATION SHEET DATED 5/24/2022



PREPARED FOR: CELCO PARTNERSHIP D.B.A.

verizon

HG HUDSON Design Group LLC

45 BEECHWOOD DRIVE
N. ANDOVER, MA 01846
TEL: (978) 557-5553
FAX: (978) 334-5584

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL, DATE LISTED HEREIN

CHECKED BY: JX

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
0	05/12/21	ISSUED FOR CONSTRUCTION	SLY

SITE NAME:
HIGGANUM SOUTH CT

SITE ADDRESS:
330 POKORNY ROAD
HIGGANUM, CT 06441

SHEET TITLE
RF PLUMBING
DIAGRAM & BILL OF
MATERIALS

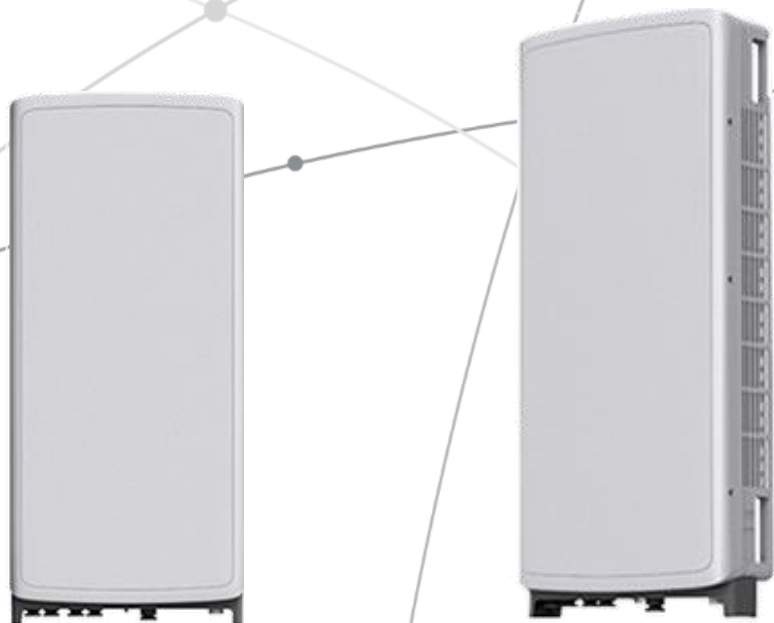
SHEET NUMBER
RF-1

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



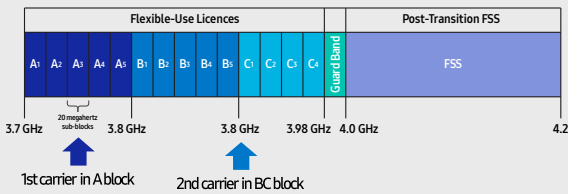
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

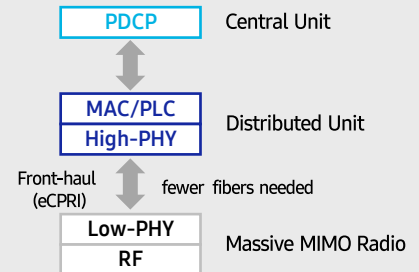
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

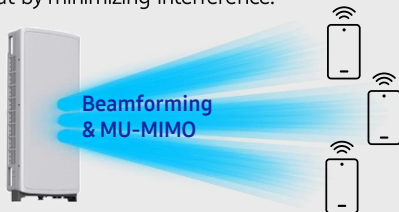


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

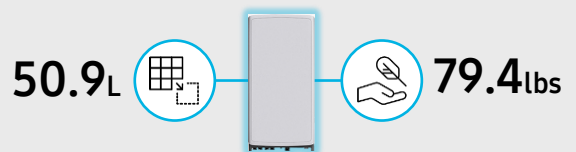
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/ Weight	16.06 x 35.06 x 5.51 inch (50.86L)/ 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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ATTACHMENT 3

	General	Power	Density					
Site Name: Higganum S								
Tower Height: Verizon @ 145ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*Eversource Energy	4	124	180	217	0.005891518	0.2	0.002945759	
*Eversource Energy	1	3428	240	6256	0.022514024	1	0.002251402	
*Eversource Energy	1	776	123	2145	0.020386094	1	0.002038609	
*Sprint	8	778	144	2500	0.117531813	1	0.011753181	
*Sprint	4	859	144	800	0.064884208	0.533333333	0.012165789	
*Sprint	4	1440	144	1900	0.108769801	1	0.01087698	
*Northeast	1	501	251	37.1	0.00103	0.2	0.000515	
*Northeast	1	335	274	150	0.000578	0.2	0.000289	
*Northeast	1	335	274	166	0.000578	0.2	0.000289	
*Northeast	1	2500	274	450	0.001078	0.3	0.000359333	
*Northeast	1	335	154	157	0.001829	0.2	0.0009145	
*Northeast	1	1005	214	150	0.002841	0.2	0.0014205	
*Northeast	1	100	74	47.96	0.002364	0.2	0.001182	
*Middlesex Fire	1	100	274	45.98	0.000172	0.2	0.000086	
*Haddam Fire	1	316	64	46.24	0.009988	0.2	0.004994	
*Operations	1	178	214	42.06	0.000503	0.2	0.0002515	
*NL County Fire	1	316	111	33.76	0.00332	0.2	0.00166	
*MED 9	1	150	244	460	0.000082	0.306666667	2.67391E-05	
*Hi-Band TRP-TRP	1	878	144	150	0.005482	0.2	0.002741	
*Operations	1	398	114	450	0.000991	0.3	0.000330333	
*MS to Talcott	1	9927	269	6805	0.000493	1	0.0000493	
*MW to CT Yankee	1	9957	269	6815	0.000495	1	0.0000495	
*MW to Madison	1	9869	269	6785	0.00049	1	0.000049	
*MW to Talcott	1	845	194	6000	0.000081	1	0.0000081	
*MW to Millstone	2	9782	194	6000	0.0019	1.0000	0.02%	
*MW to Troop F	1	5413	187	6525	0.0006	1.0000	0.01%	
*MW to Mt. Beseck	1	5413	185	6525	0.0006	1.0000	0.01%	
*MW to Jenks Hill	1	18741	94	17700	0.0076	1.0000	0.08%	
*Troop F 800 MHz	5	200	169	866	0.0005	0.5773	0.01%	
*Troop K 800 MHz	5	200	234	866	0.0005	0.5773	0.01%	
*Interop 800 MHz	5	200	169	866	0.0005	0.5773	0.01%	
*Educational TV	1	151	234	2500	0.0000	1.0000	0.00%	
*VoiceStream	8	208	125	1930	0.0423	1.0000	0.42%	
*Northeast Utilities	6-foot dish owned by State Police was proposed to be added but no power density was provided.							
VZW 700	4	995	145	751	0.0068	0.5007	1.36%	
VZW Cellular	4	889	145	874	0.0061	0.5827	1.04%	
VZW PCS	4	1545	145	1975	0.0106	1.0000	1.06%	
VZW AWS	4	1823	145	2120	0.0125	1.0000	1.25%	
VZW CBAND	2	13335	145	3730.08	0.0456	1.0000	4.56%	
								15.55%
* Source: Siting Council								

ATTACHMENT 4

Report Date: August 3, 2021

Client: Hudson Design Group
45 Beechwood Dr
North Andover, MA 01845
Attn: Sylvester Bhembe
978.557.5553
sbhembe@hudsondesigngroupllc.com

Structure: Existing 280-ft Self Support Tower
FCC ASR #: 1285236
Site Name: Higganum South CT
Site Address: 330 Porkorny St
City, County, State: Haddam, Middlesex County, CT
Latitude, Longitude: 41.443583°, -72.566361°

PJF Project: A00019-0111.009.8700

Paul J. Ford and Company is pleased to submit this “**Structural Analysis Report**” to determine the tower stress level.

Analysis Criteria:

This analysis utilizes an ultimate 3-second gust wind speed of 140 mph as required by the 2018 Connecticut State Building Code and Appendix N. Applicable Standard references and design criteria are listed in Section 2 - Analysis Criteria.

Proposed Appurtenance Loads:

The structure was analyzed with the proposed loading configuration shown in Table 1 combined with the other considered equipment shown in Table 2 of this report.

Summary of Analysis Results:

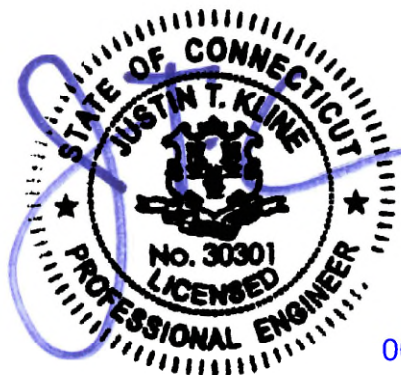
Existing Structure: Pass – 85.9%
Existing Foundation: Pass – 66.5%

We at Paul J. Ford and Company appreciate the opportunity of providing our continuing professional services to you and Hudson Design Group. If you have any questions or need further assistance on this or any other projects, please give us a call.

Respectfully Submitted by:
Paul J. Ford and Company



Anna Trudo, EI
Structural Designer
atrudo@pauljford.com



06/09/2022

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1) INTRODUCTION

This tower is a 280 ft Self Support tower designed by Valmont in February of 2012.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
Risk Category:	III
Wind Speed:	140 mph
Exposure Category:	C
Topographic Factor:	1
Ice Thickness:	1.5 in
Wind Speed with Ice:	50 mph
Service Wind Speed:	60 mph

Table 1 - Proposed Equipment Configuration

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
145.0	145.0	3	samsung telecommunications	MT6407-77A w/ clip on RRH	-	-

Table 2 - Other Considered Equipment

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
280.0	290.0	1	decibel	DB538-G	1	7/8 1-5/8
		1	telewave	ANT150F6-3		
	285.0	1	kreco	Kreco CO-35A		
	280.0	3	tower mounts	4' x 2" Std. Pipe Mount		
277.0	277.0	1	rfs celwave	PAL8-59	2	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
276.0	276.0	1	rfs celwave	PAL8-59	-	-
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
260.0	265.0	1	decibel	DB589-Y	2	1-5/8 1/2
	260.0	1	misc	12" x 16" x 4" TMA		
		1	tower mounts	6' Side Arm Mount		
257.0	262.0	2	misc	10' 8-Bay Dipole	2	7/8
	257.0	1	tower mounts	6' Side Arm Mount		
254.0	254.0	1	decibel	DB212-C	1	7/8
		1	tower mounts	6' Side Arm Mount		
252.0	252.0	1	rfs celwave	PADX6-59AC	2	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
240.0	248.0	1	sinclair	SD110-SFXPASNM	2	7/8
	247.0	1	kreco	CO-36A		
	240.0	2	tower mounts	6' Side Arm Mount		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
228.0	228.0	1	comprod	Comprod 531-70HD	1	7/8
		1	tower mounts	3' Side Arm Mount		
220.0	220.0	1	rfs celwave	PAL8-59	1	EW63 7/8
		1	tower mounts	8' x 2" Sch 40 Pipe Mount	1	
216.0	224.0	1	sinclair	SD110-SFXPASNM	2	7/8
	220.0	1	telewave	ANT450F6		
	216.0	2	tower mounts	6' Side Arm Mount		
203.0	203.0	1	misc	TMA (16" x 12" x 6")	1	1-5/8
		1	tower mounts	6' Side Arm Mount		
	198.0	1	sinclair	SC479-HF1LDF(DXX-E5765)		
200.0	204.0	1	misc	96" x 4" x 6" Panel	2 1	1-5/8 ½
	200.0	1	misc	TMA (16" x 12" x 6")		
		1	tower mounts	3' Side Arm Mount		
	195.0	1	sinclair	SC479-HF1LDF(DXX-E5765)		
197.0	197.0	1	rfs celwave	PAL6	1	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
195.0	195.0	1	rfs celwave	PAD10-59AC	1	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
175.0	181.0	1	antel	BCR-80010:90	4 2	1-5/8 1/2
		1	sinclair	SC479-HF1LDF		
	175.0	1	misc	TMA (16" x 12" x 6")		
		2	tower mounts	6' Side Arm Mount		
	169.0	1	antel	BCR-80010:90		
		1	sinclair	SC479-HF1LDF		
165.0	168.0	1	telewave	ANT450F6	1	7/8
	165.0	1	tower mounts	3' Side Arm Mount		
162.0	162.0	1	rfs celwave	PA6-65AC	1	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
155.0	155.0	6	alcatel lucent	FD RRH 2x50 800	4	1-1/4
		3	commscope	NNVV-65B-R4 w/ Mount Pipe		
		3	nokia	FZHN		
		3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe		
		1	tower mounts	(3) 12' V Frame		
145.0	145.0	3	commscope	LNx-6515DS-A1M w/ Mount Pipe	3	6 x 12 Hybrid Cables
		6	commscope	NHH-65C-R2B w/ Mount Pipe		
		3	raycap	RC3DC-3315-PF-48		
		3	samsung telecommunications	B2/B66A RRH-BR049		
		3	samsung telecommunications	B5/B13 RRH-BR04C		
		1	tower mounts	(3) VFA12-RRU Sector Frame		

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
		3	tower mounts	2 Std. Mount Pipe Stabilizer		
		3	tower mounts	2.5 STD x Mount Pipe		
		3	tower mounts	BSAMNT-SBS-1-2 (Mount Bracket)		
		12	tower mounts	L 2.5 x 2.5 x 3/16 x 6' Mount Angle		
128.0	128.0	1	tower mounts	Side Arm Mount [SO 311-1]	-	-
126.0	126.0	1	kathrein	PRF-950	1	7/8
		1	tower mounts	6' Side Arm Mount		
125.0	131.0	1	kreco	CO-36A	1	7/8
	125.0	1	tower mounts	6' Side Arm Mount		
124.0	128.0	1	telewave	ANT450F6	1	7/8
	124.0	1	tower mounts	6' Side Arm Mount		
123.0	123.0	1	rfs celwave	SBX4-W60AC2	1	E60
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
118.0	118.0	1	telewave	ANT400D	1	7/8
		2	telewave	ANT400D3		
		1	tower mounts	3' Side Arm Mount		
117.0	117.0	1	kathrein	PRF-950	1	7/8
		1	tower mounts	3' Side Arm Mount		
104.0	104.0	1	rfs celwave	PA6-65AC	1	EW63
		1	tower mounts	8' x 2" Sch 40 Pipe Mount		
95.0	98.0	1	browning	BR6155	1	7/8
	95.0	1	tower mounts	3' Side Arm Mount		
55.0	58.0	1	tower mounts	3' Side Arm Mount	1	7/8
		1	telewave	Telewave ANT790		
	55.0	2	tower mounts	3' Side Arm Mount	1	1/2
55.0	55.0	1	tower mounts	3' Side Arm Mount	1	7/8
		1	telewave	ANT400D3		
50.0	55.0	1	telewave	Telewave ANT790	1	1/2
	50.0	1	tower mounts	3' Side Arm Mount		

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Remarks	Reference
Tower Manufacturer Drawings	Valmont, 2/29/2012	240898
Geotechnical Report	8/1/2011	-
Structural Analysis	Black & Veatch, 3/12/2019	400056
Mount Modifications	Maser, 4/16/2021	Higganum South CT
Tower Inventory Mapping	HDG, 4/20/2021	Higganum South CT
Mount Analysis Report	Maser, 4/16/2021	Higganum South CT
Construction Drawings	HDG, 5/12/2021	Higganum South CT

3.1) Analysis Method

tnxTower (version 8.0.9.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were maintained in accordance with the TIA-222 Standard.
- 2) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 4 - Section Capacity (Summary)

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T1	280 - 270	Leg	Valmont 207628 (12x1.25)	2	-4.65	142.49	33.7	Pass
T2	270 - 260	Leg	Valmont 207628 (12x1.25)	17	-9.92	142.49	9.3	Pass
T3	260 - 240	Leg	Valmont 207628 (12x1.25)	30	-19.98	142.49	35.2	Pass
T4	240 - 220	Leg	Valmont 207628 (12x1.25)	43	-67.34	142.49	47.3	Pass
T5	220 - 210	Leg	Valmont 195557 (12x1.75)	64	-88.11	301.49	45.2	Pass
T6	210 - 200	Leg	Valmont 195557 (12x1.75)	73	-109.32	301.49	46.8	Pass
T7	200 - 180	Leg	Valmont 211843 (12x2)	85	-144.35	356.29	67.5	Pass
T8	180 - 160	Leg	Valmont 208334 (12x2.25)	94	-198.16	451.15	44.8	Pass
T9	160 - 140	Leg	Valmont 208334 (12x2.25)	103	-253.28	451.15	85.9	Pass
T10	140 - 120	Leg	Valmont 208335 (12x2.5)	112	-317.54	557.27	57.0	Pass
T11	120 - 100	Leg	Valmont 208337 (12x2.75)	121	-385.11	674.68	57.1	Pass
T12	100 - 80	Leg	Valmont 208338 (12x3)	130	-453.26	803.44	56.4	Pass
T13	80 - 60	Leg	Valmont 208338 (12x3)	139	-522.51	803.44	65.0	Pass
T14	60 - 40	Leg	Valmont 208339 (12x3.25)	148	-591.07	943.57	62.6	Pass
T15	40 - 20	Leg	Valmont 208339 (12x3.25)	157	-661.67	943.57	70.1	Pass
T16	20 - 0	Leg	Valmont 208339 (12x3.25)	166	-727.48	943.57	77.1	Pass
T1	280 - 270	Diagonal	L 3 x 3 x 5/16	9	-3.48	21.96	15.9	Pass
T2	270 - 260	Diagonal	L 3 x 3 x 5/16	21	-4.45	19.76	22.5	Pass
T3	260 - 240	Diagonal	L 3 x 3 x 5/16	36	-7.16	16.15	44.3	Pass

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (K)	SF*P_allow (K)	% Capacity	Pass / Fail
T4	240 - 220	Diagonal	L 4 x 4 x 1/4	52	-10.10	26.54	38.1	Pass
T5	220 - 210	Diagonal	L 4 x 4 x 1/4	67	-11.60	24.26	47.8	Pass
T6	210 - 200	Diagonal	L 4 x 4 x 1/4	76	-12.24	22.24	55.1	Pass
T7	200 - 180	Diagonal	2L 3.5 x 3.5 x 1/4 (3/8)	89	-20.87	34.61	60.3	Pass
T8	180 - 160	Diagonal	2L 3.5 x 3.5 x 1/4 (3/8)	98	-22.56	31.42	71.8	Pass
T9	160 - 140	Diagonal	2L 4 x 4 x 1/4 (3/8)	107	-28.02	41.27	67.9	Pass
T10	140 - 120	Diagonal	2L 4 x 4 x 3/8 (1/2)	116	-32.54	58.42	55.7	Pass
T11	120 - 100	Diagonal	2L 4 x 4 x 3/8 (1/2)	125	-34.13	53.60	63.7	Pass
T12	100 - 80	Diagonal	2L 5 x 5 x 5/16 (1/2)	134	-36.30	75.43	48.1	Pass
T13	80 - 60	Diagonal	2L 5 x 5 x 5/16 (1/2)	143	-37.65	69.37	54.3	Pass
T14	60 - 40	Diagonal	2L 5 x 5 x 5/16 (1/2)	152	-39.60	63.90	62.0	Pass
T15	40 - 20	Diagonal	2L 5 x 5 x 5/16 (1/2)	161	-40.18	58.96	68.1	Pass
T16	20 - 0	Diagonal	2L 5 x 5 x 5/16 (1/2)	170	-42.94	54.49	78.8	Pass
T1	280 - 270	Secondary Horizontal	L 2.5 x 2.5 x 5/16	14	-1.42	13.58	10.5	Pass
T2	270 - 260	Secondary Horizontal	L 2.5 x 2.5 x 5/16	25	-0.22	11.43	1.9	Pass
T6	210 - 200	Secondary Horizontal	L 5 x 5 x 3/8	84	-1.90	52.71	3.6	Pass
T1	280 - 270	Top Girt	L 3.5 x 3.5 x 5/16	6	-0.55	17.38	3.2	Pass
T4	240 - 220	Top Girt	L 5 x 5 x 3/8	47	-1.70	32.69	5.2	Pass
T4	240 - 220	Mid Girt	L 5 x 5 x 3/8	50	-2.35	28.65	8.2	Pass
							Summary	
							Leg (T9)	85.9 Pass
							Diagonal (T16)	78.8 Pass
							Secondary Horizontal (T1)	10.5 Pass
							Top Girt (T4)	5.2 Pass
							Mid Girt (T4)	8.2 Pass
							Bolt Checks	76.0 Pass
							Rating =	85.9 Pass

Table 5 - Tower Component Stresses vs. Capacity

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Anchor Rods	0	69.9	Pass
1	Base Foundation (Structure)	0	66.5	Pass
1	Base Foundation (Soil Interaction)	0	58.9	Pass

Structure Rating (max from all components) =	85.9%
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Notes:

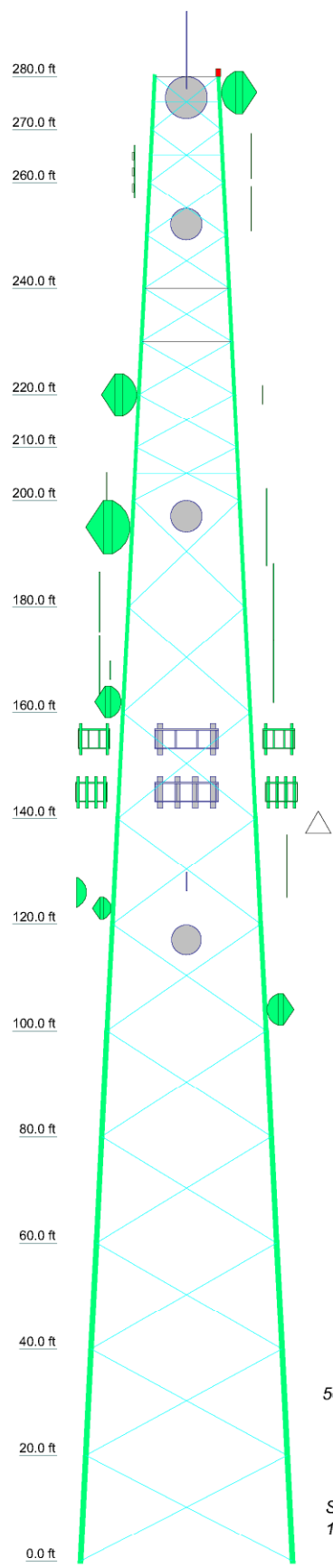
- 1) See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.

4.1) Recommendations

The tower and its foundation have sufficient capacity to carry the proposed load configuration. No modifications are required at this time.

APPENDIX A
TNXTOWER OUTPUT

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16
Legs	Valmont 207628 (12x1.25)															
Leg Grade	A572-50															
Diagonals	2L 3.5 x 3.5 x 1/4 (3/8)															
Diagonal Grade	A36															
Top Girts	L 5 x 5 x 3/8															
Mid Girts	L 5 x 5 x 3/8															
Sec. Horizontals	N.A.															
Face Width (ft)	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
# Panels @ (ft)	8 @ 10															
Weight (K)	112.0	12.9	12.6	12.4	12.4	11.1	9.6	8.5	6.4	5.9	5.3	2.9	2.9	2.1	1.6	1.9



SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	Valmont 195557 (12x1.75)	E	2L 4 x 4 x 1/4 (3/8)
B	Valmont 211843 (12x2)	F	L 3.5 x 3.5 x 5/16
C	Valmont 208335 (12x2.5)	G	L 5 x 5 x 3/8
D	Valmont 208337 (12x2.75)		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

TOWER DESIGN NOTES

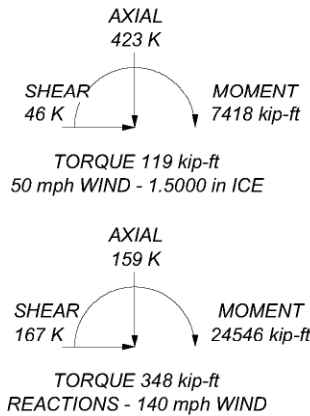
1. Tower is located in Middlesex County, Connecticut.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 140 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 50 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category III.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 85.9%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 761 K
SHEAR: 101 K

UPLIFT: -620 K
SHEAR: 87 K



 Paul J. Ford and Company 250 East Broad St., Suite 600 Columbus, OH 43215 Phone: 614-221-6679 FAX:	Job: 280-ft Self Support Tower Haddam, CT Project: 00019-0111 Client: Hudson Design Group Code: TIA-222-H Path:		
	Drawn by: Anna Trudo Date: 08/02/21	App'd: Scale: NTS Dwg No. E-1	©2020 PJC, Inc. All rights reserved.

Tower Input Data

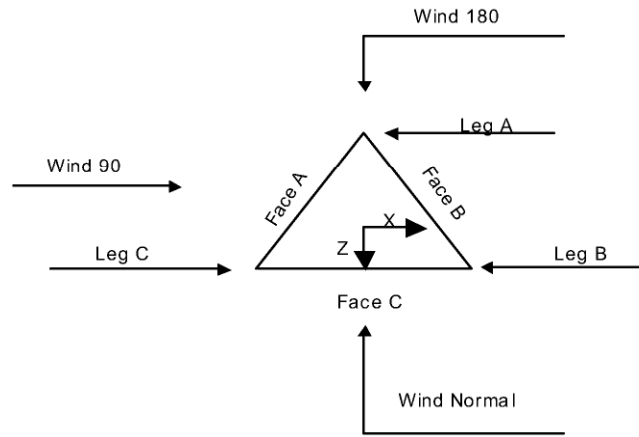
The main tower is a 3x free standing tower with an overall height of 280.00 ft above the ground line.
 The base of the tower is set at an elevation of 0.00 ft above the ground line.
 The face width of the tower is 12.00 ft at the top and 40.00 ft at the base.
 This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Middlesex County, Connecticut.
- Tower base elevation above sea level: 658.00 ft.
- Basic wind speed of 140 mph.
- Risk Category III.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.00 ft.
- Nominal ice thickness of 1.5000 in.
- Ice thickness is considered to increase with height.
- Ice density of 56 pcf.
- A wind speed of 50 mph is used in combination with ice.
- Deflections calculated using a wind speed of 60 mph.
- A non-linear (P-delta) analysis was used.
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification ✓ Use Code Stress Ratios ✓ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric	Distribute Leg Loads As Uniform Assume Legs Pinned Assume Rigid Index Plate Use Clear Spans For Wind Area ✓ Use Clear Spans For KL/r Retension Guys To Initial Tension Bypass Mast Stability Checks ✓ Use Azimuth Dish Coefficients ✓ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination ✓ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg. Angle Legs	Use ASCE 10 X-Brace Ly Rules ✓ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation ✓ Consider Feed Line Torque ✓ Include Angle Block Shear Check Use TIA-222-H Bracing Resist. Exemption Use TIA-222-H Tension Splice Exemption <div style="text-align: center; background-color: #e0e0e0; padding: 2px;">Poles</div> Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known
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Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	280.00-270.00			12.00	1	10.00
T2	270.00-260.00			13.00	1	10.00
T3	260.00-240.00			14.00	1	20.00
T4	240.00-220.00			16.00	1	20.00
T5	220.00-210.00			18.00	1	10.00
T6	210.00-200.00			19.00	1	10.00
T7	200.00-180.00			20.00	1	20.00
T8	180.00-160.00			22.00	1	20.00
T9	160.00-140.00			24.00	1	20.00
T10	140.00-120.00			26.00	1	20.00
T11	120.00-100.00			28.00	1	20.00
T12	100.00-80.00			30.00	1	20.00
T13	80.00-60.00			32.00	1	20.00
T14	60.00-40.00			34.00	1	20.00
T15	40.00-20.00			36.00	1	20.00
T16	20.00-0.00			38.00	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	280.00-270.00	10.00	X Brace	No	Yes	0.0000	0.0000
T2	270.00-260.00	10.00	X Brace	No	Yes	0.0000	0.0000
T3	260.00-240.00	10.00	X Brace	No	No	0.0000	0.0000
T4	240.00-220.00	10.00	X Brace	No	No	0.0000	0.0000
T5	220.00-210.00	10.00	X Brace	No	No	0.0000	0.0000
T6	210.00-200.00	10.00	X Brace	No	Yes	0.0000	0.0000
T7	200.00-180.00	20.00	X Brace	No	No	0.0000	0.0000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T8	180.00-160.00	20.00	X Brace	No	No	0.0000	0.0000
T9	160.00-140.00	20.00	X Brace	No	No	0.0000	0.0000
T10	140.00-120.00	20.00	X Brace	No	No	0.0000	0.0000
T11	120.00-100.00	20.00	X Brace	No	No	0.0000	0.0000
T12	100.00-80.00	20.00	X Brace	No	No	0.0000	0.0000
T13	80.00-60.00	20.00	X Brace	No	No	0.0000	0.0000
T14	60.00-40.00	20.00	X Brace	No	No	0.0000	0.0000
T15	40.00-20.00	20.00	X Brace	No	No	0.0000	0.0000
T16	20.00-0.00	20.00	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 280.00-270.00	Truss Leg	Valmont 207628 (12x1.25)	A572-50 (50 ksi)	Single Angle	L 3 x 3 x 5/16	A36 (36 ksi)
T2 270.00-260.00	Truss Leg	Valmont 207628 (12x1.25)	A572-50 (50 ksi)	Single Angle	L 3 x 3 x 5/16	A36 (36 ksi)
T3 260.00-240.00	Truss Leg	Valmont 207628 (12x1.25)	A572-50 (50 ksi)	Single Angle	L 3 x 3 x 5/16	A36 (36 ksi)
T4 240.00-220.00	Truss Leg	Valmont 207628 (12x1.25)	A572-50 (50 ksi)	Single Angle	L 4 x 4 x 1/4	A36 (36 ksi)
T5 220.00-210.00	Truss Leg	Valmont 195557 (12x1.75)	A572-50 (50 ksi)	Single Angle	L 4 x 4 x 1/4	A36 (36 ksi)
T6 210.00-200.00	Truss Leg	Valmont 195557 (12x1.75)	A572-50 (50 ksi)	Single Angle	L 4 x 4 x 1/4	A36 (36 ksi)
T7 200.00-180.00	Truss Leg	Valmont 211843 (12x2)	A572-50 (50 ksi)	Double Angle	2L 3.5 x 3.5 x 1/4 (3/8)	A36 (36 ksi)
T8 180.00-160.00	Truss Leg	Valmont 208334 (12x2.25)	A572-50 (50 ksi)	Double Angle	2L 3.5 x 3.5 x 1/4 (3/8)	A36 (36 ksi)
T9 160.00-140.00	Truss Leg	Valmont 208334 (12x2.25)	A572-50 (50 ksi)	Double Angle	2L 4 x 4 x 1/4 (3/8)	A36 (36 ksi)
T10 140.00-120.00	Truss Leg	Valmont 208335 (12x2.5)	A572-50 (50 ksi)	Double Angle	2L 4 x 4 x 3/8 (1/2)	A36 (36 ksi)
T11 120.00-100.00	Truss Leg	Valmont 208337 (12x2.75)	A572-50 (50 ksi)	Double Angle	2L 4 x 4 x 3/8 (1/2)	A36 (36 ksi)
T12 100.00-80.00	Truss Leg	Valmont 208338 (12x3)	A572-50 (50 ksi)	Double Angle	2L 5 x 5 x 5/16 (1/2)	A36 (36 ksi)
T13 80.00-60.00	Truss Leg	Valmont 208338 (12x3)	A572-50 (50 ksi)	Double Angle	2L 5 x 5 x 5/16 (1/2)	A36 (36 ksi)
T14 60.00-40.00	Truss Leg	Valmont 208339 (12x3.25)	A572-50 (50 ksi)	Double Angle	2L 5 x 5 x 5/16 (1/2)	A36 (36 ksi)
T15 40.00-20.00	Truss Leg	Valmont 208339 (12x3.25)	A572-50 (50 ksi)	Double Angle	2L 5 x 5 x 5/16 (1/2)	A36 (36 ksi)
T16 20.00-0.00	Truss Leg	Valmont 208339 (12x3.25)	A572-50 (50 ksi)	Double Angle	2L 5 x 5 x 5/16 (1/2)	A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 280.00-270.00	Equal Angle	L 3.5 x 3.5 x 5/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T4 240.00-220.00	Single Angle	L 5 x 5 x 3/8	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T4 240.00-220.00	1	Single Angle	L 5 x 5 x 3/8	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T1 280.00-270.00	Single Angle	L 2.5 x 2.5 x 5/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T2 270.00-260.00	Single Angle	L 2.5 x 2.5 x 5/16	A36 (36 ksi)	Single Angle		A36 (36 ksi)
T6 210.00-200.00	Single Angle	L 5 x 5 x 3/8	A36 (36 ksi)	Single Angle		A36 (36 ksi)

Tower Section Geometry (cont'd)

Tower Elevation ft	Gusset Area (per face) ft ²	Gusset Thickness in	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 280.00-270.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T2 270.00-260.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T3 260.00-240.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T4 240.00-220.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T5 220.00-210.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T6 210.00-200.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T7 200.00-180.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T8 180.00-160.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T9 160.00-140.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T10 140.00-120.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T11 120.00-100.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T12 100.00-80.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T13 80.00-60.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T14 60.00-40.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T15 40.00-20.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt
T16 20.00-0.00	0.00	0.5000	A36 (36 ksi)	1	1	1.1	Mid-Pt	Mid-Pt	Mid-Pt

Tower Section Geometry (cont'd)

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
				X Y	X Y	X Y	X Y	X Y	X Y	X Y	
T1 280.00-270.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T2 270.00-260.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T3 260.00-240.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T4 240.00-220.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T5 220.00-210.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T6 210.00-200.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T7 200.00-180.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T8 180.00-160.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T9 160.00-140.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T10 140.00-120.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T11 120.00-100.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T12 100.00-80.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T13 80.00-60.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T14 60.00-40.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T15 40.00-20.00	Yes	Yes	1	1	1	1	1	1	1	1	1
T16 20.00-0.00	Yes	Yes	1	1	1	1	1	1	1	1	1

¹Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.

Tower Section Geometry (cont'd)

Tower Elevation ft	Truss-Leg K Factors					
	Truss-Legs Used As Leg Members			Truss-Legs Used As Inner Members		
	Leg Panels	X Brace Diagonals	Z Brace Diagonals	Leg Panels	X Brace Diagonals	Z Brace Diagonals
T1 280.00-270.00	1	0.5	0.85	1	1	1
T2 270.00-260.00	1	0.5	0.85	1	1	1
T3 260.00-240.00	1	0.5	0.85	1	1	1
T4 240.00-220.00	1	0.5	0.85	1	1	1
T5 220.00-210.00	1	0.5	0.85	1	1	1
T6 210.00-200.00	1	0.5	0.85	1	1	1
T7 200.00-180.00	1	0.5	0.85	1	1	1

Tower Elevation ft	Truss-Leg K Factors					
	Truss-Legs Used As Leg Members			Truss-Legs Used As Inner Members		
	Leg Panels	X Brace Diagonals	Z Brace Diagonals	Leg Panels	X Brace Diagonals	Z Brace Diagonals
T8 180.00-160.00	1	0.5	0.85	1	1	1
T9 160.00-140.00	1	0.5	0.85	1	1	1
T10 140.00-120.00	1	0.5	0.85	1	1	1
T11 120.00-100.00	1	0.5	0.85	1	1	1
T12 100.00-80.00	1	0.5	0.85	1	1	1
T13 80.00-60.00	1	0.5	0.85	1	1	1
T14 60.00-40.00	1	0.5	0.85	1	1	1
T15 40.00-20.00	1	0.5	0.85	1	1	1
T16 20.00-0.00	1	0.5	0.85	1	1	1

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 280.00-270.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 270.00-260.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 260.00-240.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 240.00-220.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 220.00-210.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 210.00-200.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 200.00-180.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 180.00-160.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 160.00-140.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 140.00-120.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 120.00-100.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 100.00-80.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T13 80.00-60.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T14 60.00-40.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T15 40.00-20.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T16 20.00-0.00	0.0000	1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 280.00-270.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T2 270.00-260.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T3 260.00-240.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T4 240.00-220.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T5 220.00-210.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T6 210.00-200.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T7 200.00-180.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T8 180.00-160.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T9 160.00-140.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T10 140.00-120.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T11 120.00-100.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T12 100.00-80.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T13 80.00-60.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T14 60.00-40.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T15 40.00-20.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
T16 20.00-0.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Tower Section Geometry (cont'd)

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 280.00-270.00	Flange	1.0000	0	1.0000	1	1.0000	1	0.6250	0	0.6250	0	0.6250	0	1.0000	1
T2 270.00-260.00	Flange	1.0000	6	1.0000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	1.0000	1
T3 260.00-240.00	Flange	1.0000	6	1.0000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T4 240.00-220.00	Flange	1.0000	6	1.0000	1	1.0000	1	0.6250	0	1.0000	1	0.6250	0	0.6250	0
T5 220.00-210.00	Flange	1.0000	0	1.0000	1	0.6250	0	0.0000	0	0.6250	0	0.6250	0	0.6250	0
T6 210.00-200.00	Flange	1.0000	12	1.0000	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	1.0000	1
T7 200.00-180.00	Flange	1.0000	12	0.8750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T8 180.00-160.00	Flange	1.0000	12	0.8750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T9 160.00-140.00	Flange	1.0000	12	0.8750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0
T10 140.00-120.00	Flange	1.0000	12	0.8750	1	0.6250	0	0.6250	0	0.6250	0	0.6250	0	0.6250	0

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T11 120.00-100.00	Flange	1.0000 A325N	12	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T12 100.00-80.00	Flange	1.2500 A325N	12	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T13 80.00-60.00	Flange	1.2500 A325N	12	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T14 60.00-40.00	Flange	1.2500 A325N	12	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T15 40.00-20.00	Flange	1.2500 A325N	12	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0
T16 20.00-0.00	Flange	0.0000 A615-75	0	0.8750 A325N	2	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0	0.6250 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
**** Safety Line 3/8	C	No	No	Ar (CaAa)	280.00 - 0.00	0.0000	0	1	1	0.3750	0.3750		0.22
LDF4-50A (1/2" foam)	C	No	No	Ar (CaAa)	280.00 - 0.00	0.0000	0.45	1	1	0.6300	0.6300		0.15
LDF2-50 (3/8" foam) ****FACE A****	C	No	No	Ar (CaAa)	140.00 - 0.00	0.0000	0.45	1	1	0.4400	0.4400		0.08
LDF6-50 (1 1/4" foam)	A	No	No	Ar (CaAa)	155.00 - 0.00	0.0000	0.4	4	4	1.0000 0.5000	1.5500		0.66
1.5" flat Cable Ladder Rail **	A	No	No	Af (CaAa)	155.00 - 0.00	0.0000	0.4	2	2	24.000 0 1.5000	1.5000		1.80
EW63(ELLIP TICAL)	A	No	No	Ar (CaAa)	195.00 - 162.00	0.0000	-0.43	1	1	1.0000 0.5000	2.0100		0.51
EW63(ELLIP TICAL)	A	No	No	Ar (CaAa)	162.00 - 104.00	0.0000	-0.43	2	2	1.0000 0.5000	2.0100		0.51
EW63(ELLIP TICAL)	A	No	No	Ar (CaAa)	104.00 - 0.00	0.0000	-0.43	3	3	1.0000 0.5000	2.0100		0.51
LDF7-50A (1 5/8" foam)	A	No	No	Ar (CaAa)	200.00 - 0.00	0.0000	-0.36	2	2	1.0000 0.5000	1.9800		0.92
LDF7-50A (1 5/8" foam)	A	No	No	Ar (CaAa)	175.00 - 0.00	0.0000	-0.34	4	2	1.0000 0.5000	1.9800		0.92
LDF4-50A (1/2" foam)	A	No	No	Ar (CaAa)	175.00 - 0.00	0.0000	-0.4	2	2	0.6300	0.6300		0.15
LDF5-50A (7/8" foam)	A	No	No	Ar (CaAa)	55.00 - 0.00	0.0000	-0.32	1	1	1.0900	1.0900		0.33
LDF4-50A (1/2" foam)	A	No	No	Ar (CaAa)	200.00 - 0.00	0.0000	-0.36	1	1	0.6300	0.6300		0.15
LDF7-50A (1 5/8" foam)	A	No	No	Ar (CaAa)	203.00 - 0.00	0.0000	-0.36	1	1	1.0000 0.5000	1.9800		0.92
E60	A	No	No	Ar (CaAa)	123.00 - 0.00	0.0000	-0.42	1	1	1.0000 0.5000	2.0100		0.51
1.5" flat Cable Ladder Rail ****FACE B****	A	No	No	Af (CaAa)	235.00 - 0.00	0.0000	-0.4	2	2	36.000 0 1.5000	1.5000		1.80
EW63(ELLIP TICAL)	B	No	No	Ar (CaAa)	277.00 - 220.00	0.0000	0.46	2	2	0.5000	2.0100		0.51
EW63(ELLIP TICAL)	B	No	No	Ar (CaAa)	220.00 - 0.00	0.0000	0.46	3	3	0.5000	2.0100		0.51

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	165.00 - 0.00	0.0000	0.43	1	1	1.0000 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	254.00 - 0.00	0.0000	0.41	1	1	1.0900 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	240.00 - 0.00	0.0000	0.42	1	1	1.0000 0.5000	1.0900		0.33
LDF4-50A (1/2" foam)	B	No	No	Ar (CaAa)	260.00 - 0.00	0.0000	0.41	1	1	0.6300	0.6300		0.15
LDF7-50A (1 5/8" foam)	B	No	No	Ar (CaAa)	260.00 - 0.00	0.0000	0.39	2	2	1.0000 0.5000	1.9800		0.92
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	228.00 - 0.00	0.0000	0.38	1	1	1.0900	1.0900		0.33
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	216.00 - 0.00	0.0000	0.38	2	2	1.0900	1.0900		0.33
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	125.00 - 0.00	0.0000	0.44	1	1	1.0900	1.0900		0.33
Hybrid Cables	B	No	No	Ar (CaAa)	145.00 - 0.00	0.0000	0.44	3	3	1.5500	1.5500		0.66
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	257.00 - 0.00	0.0000	0.41	2	2	1.0900 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	B	No	No	Ar (CaAa)	220.00 - 0.00	0.0000	0.44	1	1	1.0000 0.5000	1.0900		0.33
1.5" flat Cable Ladder Rail	B	No	No	Af (CaAa)	280.00 - 0.00	0.0000	0.4	2	2	36.000 0 1.5000	1.5000		1.80
****FACE C****													
LDF7-50A (1 5/8" foam)	C	No	No	Ar (CaAa)	280.00 - 0.00	0.0000	0.46	2	2	1.0000 0.5000	1.9800		0.92
LDF7-50A (1 5/8" foam)	C	No	No	Ar (CaAa)	279.00 - 0.00	0.0000	0.46	1	1	1.0000 0.5000	1.9800		0.92
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	279.00 - 240.00	0.0000	0.43	2	2	1.0000 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	240.00 - 117.00	0.0000	0.43	4	4	1.0000 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	117.00 - 95.00	0.0000	0.45	5	5	1.0000 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	95.00 - 0.00	0.0000	0.43	6	6	1.0000 0.5000	1.0900		0.33
EW63(ELLIP TICAL)	C	No	No	Ar (CaAa)	252.00 - 197.00	0.0000	0.4	2	2	0.5000	2.0100		0.51
EW63(ELLIP TICAL)	C	No	No	Ar (CaAa)	197.00 - 0.00	0.0000	0.4	3	3	0.5000	2.0100		0.51
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	118.00 - 0.00	0.0000	0.45	1	1	1.0000 0.5000	1.0900		0.33
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	124.00 - 0.00	0.0000	0.4	1	1	1.0900	1.0900		0.33
LDF5-50A (7/8" foam)	C	No	No	Ar (CaAa)	126.00 - 0.00	0.0000	0.4	1	1	1.0900	1.0900		0.33
LDF4-50A (1/2" foam)	C	No	No	Ar (CaAa)	50.00 - 0.00	0.0000	0.4	1	1	0.6300	0.6300		0.15
1.5" flat Cable Ladder Rail	C	No	No	Af (CaAa)	280.00 - 0.00	0.0000	0.42	2	2	36.000 0 1.5000	1.5000		1.80

LDF4-50A (1/2" foam)	A	No	No	Ar (CaAa)	148.00 - 142.00	0.0000	0	16	8	0.5000	0.6300		0.15
LDF4-50A (1/2" foam)	B	No	No	Ar (CaAa)	148.00 - 142.00	0.0000	0	16	8	0.5000	0.6300		0.15
LDF4-50A (1/2" foam)	C	No	No	Ar (CaAa)	148.00 - 142.00	0.0000	0	16	8	0.5000	0.6300		0.15

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Componen t Type	Placement ft	Total Number	C _A A _A ft ² /ft	Weight plf

Feed Line/Linear Appurtenances Section Areas

Tower Sectio n	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T1	280.00-270.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	7.814	0.000	0.04
		C	0.000	0.000	13.709	0.000	0.07
T2	270.00-260.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	9.020	0.000	0.05
		C	0.000	0.000	14.125	0.000	0.07
T3	260.00-240.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	32.452	0.000	0.15
		C	0.000	0.000	33.074	0.000	0.16
T4	240.00-220.00	A	0.000	0.000	7.500	0.000	0.05
		B	0.000	0.000	36.812	0.000	0.16
		C	0.000	0.000	40.650	0.000	0.18
T5	220.00-210.00	A	0.000	0.000	5.000	0.000	0.04
		B	0.000	0.000	23.468	0.000	0.09
		C	0.000	0.000	20.325	0.000	0.09
T6	210.00-200.00	A	0.000	0.000	5.594	0.000	0.04
		B	0.000	0.000	24.340	0.000	0.10
		C	0.000	0.000	20.325	0.000	0.09
T7	200.00-180.00	A	0.000	0.000	26.155	0.000	0.14
		B	0.000	0.000	48.680	0.000	0.20
		C	0.000	0.000	44.067	0.000	0.19
T8	180.00-160.00	A	0.000	0.000	41.332	0.000	0.20
		B	0.000	0.000	49.225	0.000	0.20
		C	0.000	0.000	44.670	0.000	0.19
T9	160.00-140.00	A	0.000	0.000	72.388	0.000	0.34
		B	0.000	0.000	59.233	0.000	0.23
		C	0.000	0.000	50.718	0.000	0.21
T10	140.00-120.00	A	0.000	0.000	72.543	0.000	0.36
		B	0.000	0.000	60.705	0.000	0.24
		C	0.000	0.000	46.640	0.000	0.20
T11	120.00-100.00	A	0.000	0.000	76.764	0.000	0.37
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	53.725	0.000	0.22
T12	100.00-80.00	A	0.000	0.000	79.980	0.000	0.38
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	55.905	0.000	0.22
T13	80.00-60.00	A	0.000	0.000	79.980	0.000	0.38
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	56.450	0.000	0.23
T14	60.00-40.00	A	0.000	0.000	81.615	0.000	0.38
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	57.080	0.000	0.23
T15	40.00-20.00	A	0.000	0.000	82.160	0.000	0.38
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	57.710	0.000	0.23
T16	20.00-0.00	A	0.000	0.000	82.160	0.000	0.38
		B	0.000	0.000	62.340	0.000	0.25
		C	0.000	0.000	57.710	0.000	0.23

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight K
T1	280.00-270.00	A	2.132	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	22.976	0.000	0.39
		C		0.000	0.000	52.926	0.000	0.82
T2	270.00-260.00	A	2.125	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	26.965	0.000	0.43
		C		0.000	0.000	54.563	0.000	0.84
T3	260.00-240.00	A	2.112	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	118.127	0.000	1.72
		C		0.000	0.000	124.817	0.000	1.86
T4	240.00-220.00	A	2.095	0.000	0.000	20.068	0.000	0.39
		B		0.000	0.000	138.896	0.000	2.03
		C		0.000	0.000	143.923	0.000	2.14
T5	220.00-210.00	A	2.081	0.000	0.000	13.322	0.000	0.26
		B		0.000	0.000	87.036	0.000	1.27
		C		0.000	0.000	71.676	0.000	1.06
T6	210.00-200.00	A	2.071	0.000	0.000	15.119	0.000	0.29
		B		0.000	0.000	91.310	0.000	1.31
		C		0.000	0.000	71.476	0.000	1.06
T7	200.00-180.00	A	2.055	0.000	0.000	84.592	0.000	1.39
		B		0.000	0.000	181.748	0.000	2.59
		C		0.000	0.000	146.844	0.000	2.18
T8	180.00-160.00	A	2.032	0.000	0.000	126.051	0.000	1.96
		B		0.000	0.000	183.061	0.000	2.60
		C		0.000	0.000	146.726	0.000	2.16
T9	160.00-140.00	A	2.007	0.000	0.000	207.881	0.000	3.13
		B		0.000	0.000	207.782	0.000	2.95
		C		0.000	0.000	156.070	0.000	2.29
T10	140.00-120.00	A	1.978	0.000	0.000	213.114	0.000	3.20
		B		0.000	0.000	222.451	0.000	3.10
		C		0.000	0.000	158.397	0.000	2.29
T11	120.00-100.00	A	1.946	0.000	0.000	222.517	0.000	3.33
		B		0.000	0.000	227.718	0.000	3.15
		C		0.000	0.000	184.905	0.000	2.67
T12	100.00-80.00	A	1.907	0.000	0.000	225.338	0.000	3.35
		B		0.000	0.000	225.002	0.000	3.07
		C		0.000	0.000	188.163	0.000	2.69
T13	80.00-60.00	A	1.860	0.000	0.000	222.394	0.000	3.25
		B		0.000	0.000	221.677	0.000	2.97
		C		0.000	0.000	186.750	0.000	2.62
T14	60.00-40.00	A	1.798	0.000	0.000	225.596	0.000	3.23
		B		0.000	0.000	217.357	0.000	2.85
		C		0.000	0.000	187.534	0.000	2.57
T15	40.00-20.00	A	1.709	0.000	0.000	222.015	0.000	3.07
		B		0.000	0.000	211.074	0.000	2.67
		C		0.000	0.000	186.395	0.000	2.46
T16	20.00-0.00	A	1.531	0.000	0.000	210.268	0.000	2.72
		B		0.000	0.000	198.617	0.000	2.33
		C		0.000	0.000	175.759	0.000	2.15

Feed Line Center of Pressure

Section	Elevation ft	CP _x in	CP _z in	CP _x Ice in	CP _z Ice in
T1	280.00-270.00	-3.2586	6.2844	-5.5971	8.8622
T2	270.00-260.00	-3.3446	7.9103	-6.6624	11.9743
T3	260.00-240.00	-0.3331	12.0931	-1.2086	17.9127
T4	240.00-220.00	-3.1598	11.5221	-3.5101	18.8640
T5	220.00-210.00	-2.0503	16.2425	-0.6681	24.4759
T6	210.00-200.00	-1.6056	14.1442	-0.3387	23.1742
T7	200.00-180.00	-9.3067	22.6677	-9.0913	31.1263
T8	180.00-160.00	-14.4248	25.4680	-14.2563	34.2589
T9	160.00-140.00	-14.7404	16.0158	-14.1761	25.6118
T10	140.00-120.00	-13.7094	17.2991	-14.6915	27.8402
T11	120.00-100.00	-17.5144	20.1300	-20.3495	32.5128

Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
T12	100.00-80.00	-17.8591	19.8618	-21.4414	32.9860
T13	80.00-60.00	-18.7813	20.7765	-22.6712	34.4542
T14	60.00-40.00	-20.1197	21.7162	-25.5310	36.2886
T15	40.00-20.00	-21.2716	22.7702	-27.6645	37.8553
T16	20.00-0.00	-22.0173	23.6062	-28.7323	38.2949

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T1	2	Safety Line 3/8	270.00 - 280.00	0.6000	0.4883
T1	3	LDF4-50A (1/2" foam)	270.00 - 280.00	0.6000	0.4883
T1	25	EW63(ELLIPTICAL)	270.00 - 277.00	0.6000	0.4883
T1	39	1.5" flat Cable Ladder Rail	270.00 - 280.00	0.6000	0.4883
T1	41	LDF7-50A (1 5/8" foam)	270.00 - 280.00	0.6000	0.4883
T1	42	LDF7-50A (1 5/8" foam)	270.00 - 279.00	0.6000	0.4883
T1	43	LDF5-50A (7/8" foam)	270.00 - 279.00	0.6000	0.4883
T1	53	1.5" flat Cable Ladder Rail	270.00 - 280.00	0.6000	0.4883
T2	2	Safety Line 3/8	260.00 - 270.00	0.6000	0.5648
T2	3	LDF4-50A (1/2" foam)	260.00 - 270.00	0.6000	0.5648
T2	25	EW63(ELLIPTICAL)	260.00 - 270.00	0.6000	0.5648
T2	39	1.5" flat Cable Ladder Rail	260.00 - 270.00	0.6000	0.5648
T2	41	LDF7-50A (1 5/8" foam)	260.00 - 270.00	0.6000	0.5648
T2	42	LDF7-50A (1 5/8" foam)	260.00 - 270.00	0.6000	0.5648
T2	43	LDF5-50A (7/8" foam)	260.00 - 270.00	0.6000	0.5648
T2	53	1.5" flat Cable Ladder Rail	260.00 - 270.00	0.6000	0.5648
T3	2	Safety Line 3/8	240.00 - 260.00	0.6000	0.6000
T3	3	LDF4-50A (1/2" foam)	240.00 - 260.00	0.6000	0.6000
T3	25	EW63(ELLIPTICAL)	240.00 - 260.00	0.6000	0.6000
T3	28	LDF5-50A (7/8" foam)	240.00 - 254.00	0.6000	0.6000
T3	30	LDF4-50A (1/2" foam)	240.00 - 260.00	0.6000	0.6000
T3	31	LDF7-50A (1 5/8" foam)	240.00 - 260.00	0.6000	0.6000
T3	37	LDF5-50A (7/8" foam)	240.00 - 257.00	0.6000	0.6000
T3	39	1.5" flat Cable Ladder Rail	240.00 - 260.00	0.6000	0.6000
T3	41	LDF7-50A (1 5/8" foam)	240.00 - 260.00	0.6000	0.6000
T3	42	LDF7-50A (1 5/8" foam)	240.00 - 260.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	43	LDF5-50A (7/8" foam)	240.00 - 260.00	0.6000	0.6000
T3	47	EW63(ELLIPTICAL)	240.00 - 252.00	0.6000	0.6000
T3	53	1.5" flat Cable Ladder Rail	240.00 - 260.00	0.6000	0.6000
T4	2	Safety Line 3/8	220.00 - 240.00	0.6000	0.5846
T4	3	LDF4-50A (1/2" foam)	220.00 - 240.00	0.6000	0.5846
T4	22	1.5" flat Cable Ladder Rail	220.00 - 235.00	0.6000	0.5846
T4	25	EW63(ELLIPTICAL)	220.00 - 240.00	0.6000	0.5846
T4	28	LDF5-50A (7/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	29	LDF5-50A (7/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	30	LDF4-50A (1/2" foam)	220.00 - 240.00	0.6000	0.5846
T4	31	LDF7-50A (1 5/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	32	LDF5-50A (7/8" foam)	220.00 - 228.00	0.6000	0.5846
T4	37	LDF5-50A (7/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	39	1.5" flat Cable Ladder Rail	220.00 - 240.00	0.6000	0.5846
T4	41	LDF7-50A (1 5/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	42	LDF7-50A (1 5/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	44	LDF5-50A (7/8" foam)	220.00 - 240.00	0.6000	0.5846
T4	47	EW63(ELLIPTICAL)	220.00 - 240.00	0.6000	0.5846
T4	53	1.5" flat Cable Ladder Rail	220.00 - 240.00	0.6000	0.5846
T5	2	Safety Line 3/8	210.00 - 220.00	0.6000	0.6000
T5	3	LDF4-50A (1/2" foam)	210.00 - 220.00	0.6000	0.6000
T5	22	1.5" flat Cable Ladder Rail	210.00 - 220.00	0.6000	0.6000
T5	26	EW63(ELLIPTICAL)	210.00 - 220.00	0.6000	0.6000
T5	28	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	29	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	30	LDF4-50A (1/2" foam)	210.00 - 220.00	0.6000	0.6000
T5	31	LDF7-50A (1 5/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	32	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	33	LDF5-50A (7/8" foam)	210.00 - 216.00	0.6000	0.6000
T5	37	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	38	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	39	1.5" flat Cable Ladder Rail	210.00 - 220.00	0.6000	0.6000
T5	41	LDF7-50A (1 5/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	42	LDF7-50A (1 5/8" foam)	210.00 - 220.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T5	44	LDF5-50A (7/8" foam)	210.00 - 220.00	0.6000	0.6000
T5	47	EW63(ELLIPTICAL)	210.00 - 220.00	0.6000	0.6000
T5	53	1.5" flat Cable Ladder Rail	210.00 - 220.00	0.6000	0.6000
T6	2	Safety Line 3/8	200.00 - 210.00	0.6000	0.6000
T6	3	LDF4-50A (1/2" foam)	200.00 - 210.00	0.6000	0.6000
T6	20	LDF7-50A (1 5/8" foam)	200.00 - 203.00	0.6000	0.6000
T6	22	1.5" flat Cable Ladder Rail	200.00 - 210.00	0.6000	0.6000
T6	26	EW63(ELLIPTICAL)	200.00 - 210.00	0.6000	0.6000
T6	28	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	29	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	30	LDF4-50A (1/2" foam)	200.00 - 210.00	0.6000	0.6000
T6	31	LDF7-50A (1 5/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	32	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	33	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	37	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	38	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	39	1.5" flat Cable Ladder Rail	200.00 - 210.00	0.6000	0.6000
T6	41	LDF7-50A (1 5/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	42	LDF7-50A (1 5/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	44	LDF5-50A (7/8" foam)	200.00 - 210.00	0.6000	0.6000
T6	47	EW63(ELLIPTICAL)	200.00 - 210.00	0.6000	0.6000
T6	53	1.5" flat Cable Ladder Rail	200.00 - 210.00	0.6000	0.6000
T7	2	Safety Line 3/8	180.00 - 200.00	0.6000	0.6000
T7	3	LDF4-50A (1/2" foam)	180.00 - 200.00	0.6000	0.6000
T7	10	EW63(ELLIPTICAL)	180.00 - 195.00	0.6000	0.6000
T7	15	LDF7-50A (1 5/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	19	LDF4-50A (1/2" foam)	180.00 - 200.00	0.6000	0.6000
T7	20	LDF7-50A (1 5/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	22	1.5" flat Cable Ladder Rail	180.00 - 200.00	0.6000	0.6000
T7	26	EW63(ELLIPTICAL)	180.00 - 200.00	0.6000	0.6000
T7	28	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	29	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	30	LDF4-50A (1/2" foam)	180.00 - 200.00	0.6000	0.6000
T7	31	LDF7-50A (1 5/8" foam)	180.00 - 200.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T7	32	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	33	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	37	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	38	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	39	1.5" flat Cable Ladder Rail	180.00 - 200.00	0.6000	0.6000
T7	41	LDF7-50A (1 5/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	42	LDF7-50A (1 5/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	44	LDF5-50A (7/8" foam)	180.00 - 200.00	0.6000	0.6000
T7	47	EW63(ELLIPTICAL)	197.00 - 200.00	0.6000	0.6000
T7	48	EW63(ELLIPTICAL)	180.00 - 197.00	0.6000	0.6000
T7	53	1.5" flat Cable Ladder Rail	180.00 - 200.00	0.6000	0.6000
T8	2	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T8	3	LDF4-50A (1/2" foam)	160.00 - 180.00	0.6000	0.6000
T8	10	EW63(ELLIPTICAL)	162.00 - 180.00	0.6000	0.6000
T8	11	EW63(ELLIPTICAL)	160.00 - 162.00	0.6000	0.6000
T8	15	LDF7-50A (1 5/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	16	LDF7-50A (1 5/8" foam)	160.00 - 175.00	0.6000	0.6000
T8	17	LDF4-50A (1/2" foam)	160.00 - 175.00	0.6000	0.6000
T8	19	LDF4-50A (1/2" foam)	160.00 - 180.00	0.6000	0.6000
T8	20	LDF7-50A (1 5/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	22	1.5" flat Cable Ladder Rail	160.00 - 180.00	0.6000	0.6000
T8	26	EW63(ELLIPTICAL)	160.00 - 180.00	0.6000	0.6000
T8	27	LDF5-50A (7/8" foam)	160.00 - 165.00	0.6000	0.6000
T8	28	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	29	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	30	LDF4-50A (1/2" foam)	160.00 - 180.00	0.6000	0.6000
T8	31	LDF7-50A (1 5/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	32	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	33	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	37	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	38	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	39	1.5" flat Cable Ladder Rail	160.00 - 180.00	0.6000	0.6000
T8	41	LDF7-50A (1 5/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	42	LDF7-50A (1 5/8" foam)	160.00 - 180.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T8	44	LDF5-50A (7/8" foam)	160.00 - 180.00	0.6000	0.6000
T8	48	EW63(ELLIPTICAL)	160.00 - 180.00	0.6000	0.6000
T8	53	1.5" flat Cable Ladder Rail	160.00 - 180.00	0.6000	0.6000
T9	2	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T9	3	LDF4-50A (1/2" foam)	140.00 - 160.00	0.6000	0.6000
T9	6	LDF6-50 (1 1/4" foam)	140.00 - 155.00	0.6000	0.6000
T9	8	1.5" flat Cable Ladder Rail	140.00 - 155.00	0.6000	0.6000
T9	11	EW63(ELLIPTICAL)	140.00 - 160.00	0.6000	0.6000
T9	15	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	16	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	17	LDF4-50A (1/2" foam)	140.00 - 160.00	0.6000	0.6000
T9	19	LDF4-50A (1/2" foam)	140.00 - 160.00	0.6000	0.6000
T9	20	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	22	1.5" flat Cable Ladder Rail	140.00 - 160.00	0.6000	0.6000
T9	26	EW63(ELLIPTICAL)	140.00 - 160.00	0.6000	0.6000
T9	27	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	28	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	29	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	30	LDF4-50A (1/2" foam)	140.00 - 160.00	0.6000	0.6000
T9	31	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	32	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	33	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	36	Hybrid Cables	140.00 - 145.00	0.6000	0.6000
T9	37	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	38	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	39	1.5" flat Cable Ladder Rail	140.00 - 160.00	0.6000	0.6000
T9	41	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	42	LDF7-50A (1 5/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	44	LDF5-50A (7/8" foam)	140.00 - 160.00	0.6000	0.6000
T9	48	EW63(ELLIPTICAL)	140.00 - 160.00	0.6000	0.6000
T9	53	1.5" flat Cable Ladder Rail	140.00 - 160.00	0.6000	0.6000
T9	55	LDF4-50A (1/2" foam)	142.00 - 148.00	0.6000	0.6000
T9	56	LDF4-50A (1/2" foam)	142.00 - 148.00	0.6000	0.6000
T9	57	LDF4-50A (1/2" foam)	142.00 - 148.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T10	2	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T10	3	LDF4-50A (1/2" foam)	120.00 - 140.00	0.6000	0.6000
T10	4	LDF2-50 (3/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	6	LDF6-50 (1 1/4" foam)	120.00 - 140.00	0.6000	0.6000
T10	8	1.5" flat Cable Ladder Rail	120.00 - 140.00	0.6000	0.6000
T10	11	EW63(ELLIPTICAL)	120.00 - 140.00	0.6000	0.6000
T10	15	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	16	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	17	LDF4-50A (1/2" foam)	120.00 - 140.00	0.6000	0.6000
T10	19	LDF4-50A (1/2" foam)	120.00 - 140.00	0.6000	0.6000
T10	20	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	21	E60	120.00 - 123.00	0.6000	0.6000
T10	22	1.5" flat Cable Ladder Rail	120.00 - 140.00	0.6000	0.6000
T10	26	EW63(ELLIPTICAL)	120.00 - 140.00	0.6000	0.6000
T10	27	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	28	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	29	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	30	LDF4-50A (1/2" foam)	120.00 - 140.00	0.6000	0.6000
T10	31	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	32	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	33	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	34	LDF5-50A (7/8" foam)	120.00 - 125.00	0.6000	0.6000
T10	36	Hybrid Cables	120.00 - 140.00	0.6000	0.6000
T10	37	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	38	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	39	1.5" flat Cable Ladder Rail	120.00 - 140.00	0.6000	0.6000
T10	41	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	42	LDF7-50A (1 5/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	44	LDF5-50A (7/8" foam)	120.00 - 140.00	0.6000	0.6000
T10	48	EW63(ELLIPTICAL)	120.00 - 140.00	0.6000	0.6000
T10	50	LDF5-50A (7/8" foam)	120.00 - 124.00	0.6000	0.6000
T10	51	LDF5-50A (7/8" foam)	120.00 - 126.00	0.6000	0.6000
T10	53	1.5" flat Cable Ladder Rail	120.00 - 140.00	0.6000	0.6000
T11	2	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T11	3	LDF4-50A (1/2" foam)	100.00 - 120.00	0.6000	0.6000
T11	4	LDF2-50 (3/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	6	LDF6-50 (1 1/4" foam)	100.00 - 120.00	0.6000	0.6000
T11	8	1.5" flat Cable Ladder Rail	100.00 - 120.00	0.6000	0.6000
T11	11	EW63(ELLIPTICAL)	104.00 - 120.00	0.6000	0.6000
T11	12	EW63(ELLIPTICAL)	100.00 - 104.00	0.6000	0.6000
T11	15	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	16	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	17	LDF4-50A (1/2" foam)	100.00 - 120.00	0.6000	0.6000
T11	19	LDF4-50A (1/2" foam)	100.00 - 120.00	0.6000	0.6000
T11	20	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	21	E60	100.00 - 120.00	0.6000	0.6000
T11	22	1.5" flat Cable Ladder Rail	100.00 - 120.00	0.6000	0.6000
T11	26	EW63(ELLIPTICAL)	100.00 - 120.00	0.6000	0.6000
T11	27	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	28	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	29	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	30	LDF4-50A (1/2" foam)	100.00 - 120.00	0.6000	0.6000
T11	31	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	32	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	33	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	34	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	36	Hybrid Cables	100.00 - 120.00	0.6000	0.6000
T11	37	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	38	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	39	1.5" flat Cable Ladder Rail	100.00 - 120.00	0.6000	0.6000
T11	41	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	42	LDF7-50A (1 5/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	44	LDF5-50A (7/8" foam)	117.00 - 120.00	0.6000	0.6000
T11	45	LDF5-50A (7/8" foam)	100.00 - 117.00	0.6000	0.6000
T11	48	EW63(ELLIPTICAL)	100.00 - 120.00	0.6000	0.6000
T11	49	LDF5-50A (7/8" foam)	100.00 - 118.00	0.6000	0.6000
T11	50	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000
T11	51	LDF5-50A (7/8" foam)	100.00 - 120.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T11	53	1.5" flat Cable Ladder Rail	100.00 - 120.00	0.6000	0.6000
T12	2	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T12	3	LDF4-50A (1/2" foam)	80.00 - 100.00	0.6000	0.6000
T12	4	LDF2-50 (3/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	6	LDF6-50 (1 1/4" foam)	80.00 - 100.00	0.6000	0.6000
T12	8	1.5" flat Cable Ladder Rail	80.00 - 100.00	0.6000	0.6000
T12	12	EW63(ELLIPTICAL)	80.00 - 100.00	0.6000	0.6000
T12	15	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	16	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	17	LDF4-50A (1/2" foam)	80.00 - 100.00	0.6000	0.6000
T12	19	LDF4-50A (1/2" foam)	80.00 - 100.00	0.6000	0.6000
T12	20	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	21	E60	80.00 - 100.00	0.6000	0.6000
T12	22	1.5" flat Cable Ladder Rail	80.00 - 100.00	0.6000	0.6000
T12	26	EW63(ELLIPTICAL)	80.00 - 100.00	0.6000	0.6000
T12	27	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	28	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	29	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	30	LDF4-50A (1/2" foam)	80.00 - 100.00	0.6000	0.6000
T12	31	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	32	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	33	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	34	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	36	Hybrid Cables	80.00 - 100.00	0.6000	0.6000
T12	37	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	38	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	39	1.5" flat Cable Ladder Rail	80.00 - 100.00	0.6000	0.6000
T12	41	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	42	LDF7-50A (1 5/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	45	LDF5-50A (7/8" foam)	95.00 - 100.00	0.6000	0.6000
T12	46	LDF5-50A (7/8" foam)	80.00 - 95.00	0.6000	0.6000
T12	48	EW63(ELLIPTICAL)	80.00 - 100.00	0.6000	0.6000
T12	49	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	50	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T12	51	LDF5-50A (7/8" foam)	80.00 - 100.00	0.6000	0.6000
T12	53	1.5" flat Cable Ladder Rail	80.00 - 100.00	0.6000	0.6000
T13	2	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T13	3	LDF4-50A (1/2" foam)	60.00 - 80.00	0.6000	0.6000
T13	4	LDF2-50 (3/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	6	LDF6-50 (1 1/4" foam)	60.00 - 80.00	0.6000	0.6000
T13	8	1.5" flat Cable Ladder Rail	60.00 - 80.00	0.6000	0.6000
T13	12	EW63(ELLIPTICAL)	60.00 - 80.00	0.6000	0.6000
T13	15	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	16	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	17	LDF4-50A (1/2" foam)	60.00 - 80.00	0.6000	0.6000
T13	19	LDF4-50A (1/2" foam)	60.00 - 80.00	0.6000	0.6000
T13	20	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	21	E60	60.00 - 80.00	0.6000	0.6000
T13	22	1.5" flat Cable Ladder Rail	60.00 - 80.00	0.6000	0.6000
T13	26	EW63(ELLIPTICAL)	60.00 - 80.00	0.6000	0.6000
T13	27	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	28	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	29	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	30	LDF4-50A (1/2" foam)	60.00 - 80.00	0.6000	0.6000
T13	31	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	32	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	33	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	34	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	36	Hybrid Cables	60.00 - 80.00	0.6000	0.6000
T13	37	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	38	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	39	1.5" flat Cable Ladder Rail	60.00 - 80.00	0.6000	0.6000
T13	41	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	42	LDF7-50A (1 5/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	46	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	48	EW63(ELLIPTICAL)	60.00 - 80.00	0.6000	0.6000
T13	49	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	50	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T13	51	LDF5-50A (7/8" foam)	60.00 - 80.00	0.6000	0.6000
T13	53	1.5" flat Cable Ladder Rail	60.00 - 80.00	0.6000	0.6000
T14	2	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T14	3	LDF4-50A (1/2" foam)	40.00 - 60.00	0.6000	0.6000
T14	4	LDF2-50 (3/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	6	LDF6-50 (1 1/4" foam)	40.00 - 60.00	0.6000	0.6000
T14	8	1.5" flat Cable Ladder Rail	40.00 - 60.00	0.6000	0.6000
T14	12	EW63(ELLIPTICAL)	40.00 - 60.00	0.6000	0.6000
T14	15	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	16	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	17	LDF4-50A (1/2" foam)	40.00 - 60.00	0.6000	0.6000
T14	18	LDF5-50A (7/8" foam)	40.00 - 55.00	0.6000	0.6000
T14	19	LDF4-50A (1/2" foam)	40.00 - 60.00	0.6000	0.6000
T14	20	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	21	E60	40.00 - 60.00	0.6000	0.6000
T14	22	1.5" flat Cable Ladder Rail	40.00 - 60.00	0.6000	0.6000
T14	26	EW63(ELLIPTICAL)	40.00 - 60.00	0.6000	0.6000
T14	27	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	28	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	29	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	30	LDF4-50A (1/2" foam)	40.00 - 60.00	0.6000	0.6000
T14	31	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	32	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	33	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	34	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	36	Hybrid Cables	40.00 - 60.00	0.6000	0.6000
T14	37	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	38	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	39	1.5" flat Cable Ladder Rail	40.00 - 60.00	0.6000	0.6000
T14	41	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	42	LDF7-50A (1 5/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	46	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	48	EW63(ELLIPTICAL)	40.00 - 60.00	0.6000	0.6000
T14	49	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T14	50	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	51	LDF5-50A (7/8" foam)	40.00 - 60.00	0.6000	0.6000
T14	52	LDF4-50A (1/2" foam)	40.00 - 50.00	0.6000	0.6000
T14	53	1.5" flat Cable Ladder Rail	40.00 - 60.00	0.6000	0.6000
T15	2	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T15	3	LDF4-50A (1/2" foam)	20.00 - 40.00	0.6000	0.6000
T15	4	LDF2-50 (3/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	6	LDF6-50 (1 1/4" foam)	20.00 - 40.00	0.6000	0.6000
T15	8	1.5" flat Cable Ladder Rail	20.00 - 40.00	0.6000	0.6000
T15	12	EW63(ELLIPTICAL)	20.00 - 40.00	0.6000	0.6000
T15	15	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	16	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	17	LDF4-50A (1/2" foam)	20.00 - 40.00	0.6000	0.6000
T15	18	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	19	LDF4-50A (1/2" foam)	20.00 - 40.00	0.6000	0.6000
T15	20	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	21	E60	20.00 - 40.00	0.6000	0.6000
T15	22	1.5" flat Cable Ladder Rail	20.00 - 40.00	0.6000	0.6000
T15	26	EW63(ELLIPTICAL)	20.00 - 40.00	0.6000	0.6000
T15	27	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	28	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	29	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	30	LDF4-50A (1/2" foam)	20.00 - 40.00	0.6000	0.6000
T15	31	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	32	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	33	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	34	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	36	Hybrid Cables	20.00 - 40.00	0.6000	0.6000
T15	37	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	38	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	39	1.5" flat Cable Ladder Rail	20.00 - 40.00	0.6000	0.6000
T15	41	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	42	LDF7-50A (1 5/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	46	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T15	48	EW63(ELLIPTICAL)	20.00 - 40.00	0.6000	0.6000
T15	49	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	50	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	51	LDF5-50A (7/8" foam)	20.00 - 40.00	0.6000	0.6000
T15	52	LDF4-50A (1/2" foam)	20.00 - 40.00	0.6000	0.6000
T15	53	1.5" flat Cable Ladder Rail	20.00 - 40.00	0.6000	0.6000
T16	2	Safety Line 3/8	0.00 - 20.00	0.6000	0.6000
T16	3	LDF4-50A (1/2" foam)	0.00 - 20.00	0.6000	0.6000
T16	4	LDF2-50 (3/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	6	LDF6-50 (1 1/4" foam)	0.00 - 20.00	0.6000	0.6000
T16	8	1.5" flat Cable Ladder Rail	0.00 - 20.00	0.6000	0.6000
T16	12	EW63(ELLIPTICAL)	0.00 - 20.00	0.6000	0.6000
T16	15	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	16	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	17	LDF4-50A (1/2" foam)	0.00 - 20.00	0.6000	0.6000
T16	18	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	19	LDF4-50A (1/2" foam)	0.00 - 20.00	0.6000	0.6000
T16	20	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	21	E60	0.00 - 20.00	0.6000	0.6000
T16	22	1.5" flat Cable Ladder Rail	0.00 - 20.00	0.6000	0.6000
T16	26	EW63(ELLIPTICAL)	0.00 - 20.00	0.6000	0.6000
T16	27	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	28	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	29	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	30	LDF4-50A (1/2" foam)	0.00 - 20.00	0.6000	0.6000
T16	31	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	32	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	33	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	34	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	36	Hybrid Cables	0.00 - 20.00	0.6000	0.6000
T16	37	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	38	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	39	1.5" flat Cable Ladder Rail	0.00 - 20.00	0.6000	0.6000
T16	41	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	42	LDF7-50A (1 5/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	46	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	48	EW63(ELLIPTICAL)	0.00 - 20.00	0.6000	0.6000
T16	49	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	50	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	51	LDF5-50A (7/8" foam)	0.00 - 20.00	0.6000	0.6000
T16	52	LDF4-50A (1/2" foam)	0.00 - 20.00	0.6000	0.6000
T16	53	1.5" flat Cable Ladder Rail	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustmen t	Placement	C_{AA} Front	C_{AA} Side	Weight	
			ft ft ft	°	ft	ft ²	ft ²	K	
** Kreco CO-35A	A	From Leg	0.50 0.00 5.00	0.0000	280.00	No Ice 1/2" Ice 1" Ice	3.26 4.74 6.23 9.27	3.26 4.74 6.23 9.27	0.01 0.03 0.06 0.16

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
4' x 2" Std. Pipe Mount	A	From Leg	0.00 0.00 0.00	0.0000	280.00	2" Ice			
						No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
ANT150F6-3	C	From Leg	0.50 0.00 10.00	0.0000	280.00	2" Ice			
						No Ice	4.80	4.80	0.03
						1/2"	6.83	6.83	0.07
						Ice	8.87	8.87	0.11
						1" Ice	13.01	13.01	0.25
4' x 2" Std. Pipe Mount	C	From Leg	0.00 0.00 0.00	0.0000	280.00	2" Ice			
						No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
DB538-G	B	From Leg	0.50 0.00 10.00	0.0000	280.00	2" Ice			
						No Ice	3.64	3.64	0.02
						1/2"	5.13	5.13	0.04
						Ice	6.63	6.63	0.08
						1" Ice	9.68	9.68	0.18
4' x 2" Std. Pipe Mount	B	From Leg	0.00 0.00 0.00	0.0000	280.00	2" Ice			
						No Ice	0.87	0.87	0.01
						1/2"	1.11	1.11	0.02
						Ice	1.36	1.36	0.03
						1" Ice	1.90	1.90	0.06
8' x 2" Sch 40 Pipe Mount	B	From Leg	0.00 0.00 0.00	0.0000	277.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
8' x 2" Sch 40 Pipe Mount	A	From Leg	0.00 0.00 0.00	0.0000	276.00	2" Ice			
						No Ice	1.90	1.90	0.03
						1/2"	2.73	2.73	0.04
						Ice	3.40	3.40	0.06
						1" Ice	4.40	4.40	0.12
DB589-Y	B	From Leg	6.00 0.00 5.00	0.0000	260.00	2" Ice			
						No Ice	2.13	2.13	0.01
						1/2"	3.00	3.00	0.03
						Ice	3.76	3.76	0.05
						1" Ice	4.82	4.82	0.11
DB589-Y	B	From Leg	6.00 0.00 -5.00	0.0000	260.00	2" Ice			
						No Ice	2.13	2.13	0.01
						1/2"	3.00	3.00	0.03
						Ice	3.76	3.76	0.05
						1" Ice	4.82	4.82	0.11
12" x 16" x 4" TMA	B	From Leg	6.00 0.00 0.00	0.0000	260.00	2" Ice			
						No Ice	1.20	0.41	0.02
						1/2"	1.34	0.50	0.02
						Ice	1.48	0.59	0.03
						1" Ice	1.79	0.81	0.06
6' Side Arm Mount	B	From Leg	3.00 0.00 0.00	0.0000	260.00	2" Ice			
						No Ice	4.54	1.23	0.05
						1/2"	7.80	2.55	0.08
						Ice	11.06	3.88	0.10
						1" Ice	17.57	6.53	0.16
(2) 10' 8-Bay Dipole	C	From Leg	3.00 0.00 5.00	0.0000	257.00	2" Ice			
						No Ice	8.00	8.00	0.06
						1/2"	10.00	10.00	0.10
						Ice	12.00	12.00	0.14
						1" Ice	14.00	14.00	0.23

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustmen t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
6' Side Arm Mount	C	From Leg	1.50 0.00 0.00	0.0000	257.00	No Ice 1/2" Ice 1" 2"	4.54 7.80 11.06 17.57	1.23 2.55 3.88 6.53	0.05 0.08 0.10 0.16

DB212-C	A	From Leg	6.00 0.00 0.00	0.0000	254.00	No Ice 1/2" Ice 1" 2"	3.10 6.22 9.35 15.67	3.10 6.22 9.35 15.67	0.03 0.06 0.10 0.26
6' Side Arm Mount	A	From Leg	3.00 0.00 0.00	0.0000	254.00	No Ice 1/2" Ice 1" 2"	4.54 7.80 11.06 17.57	1.23 2.55 3.88 6.53	0.05 0.08 0.10 0.16

8' x 2" Sch 40 Pipe Mount	A	From Leg	0.00 0.00 0.00	0.0000	252.00	No Ice 1/2" Ice 1" 2"	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12
**									
SD110-SFXPASNM	B	From Leg	6.00 0.00 8.00	0.0000	240.00	No Ice 1/2" Ice 1" 2"	7.50 15.00 22.50 30.00	7.50 15.00 22.50 30.00	0.03 0.03 0.04 0.06
6' Side Arm Mount	B	From Leg	3.00 0.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" 2"	4.54 7.80 11.06 17.57	1.23 2.55 3.88 6.53	0.05 0.08 0.10 0.16
CO-36A	A	From Leg	6.00 0.00 7.00	0.0000	240.00	No Ice 1/2" Ice 1" 2"	0.75 1.96 3.19 5.70	0.75 1.96 3.19 5.70	0.01 0.02 0.04 0.09
6' Side Arm Mount	A	From Leg	3.00 0.00 0.00	0.0000	240.00	No Ice 1/2" Ice 1" 2"	4.54 7.80 11.06 17.57	1.23 2.55 3.88 6.53	0.05 0.08 0.10 0.16

Comprod 531-70HD	A	From Leg	3.00 0.00 0.00	0.0000	228.00	No Ice 1/2" Ice 1" 2"	4.98 6.22 7.47 9.96	4.98 6.22 7.47 9.96	0.04 0.05 0.06 0.07
3' Side Arm Mount	A	From Leg	1.50 0.00 0.00	0.0000	228.00	No Ice 1/2" Ice 1" 2"	0.94 1.48 2.02 3.10	1.41 2.17 2.93 4.45	0.03 0.04 0.06 0.08

8' x 2" Sch 40 Pipe Mount	C	From Leg	0.00 0.00 0.00	0.0000	220.00	No Ice 1/2" Ice 1" 2"	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12

SD110-SFXPASNM	A	From Leg	6.00 0.00 8.00	0.0000	216.00	No Ice 1/2" Ice	7.50 15.00 22.50	7.50 15.00 22.50	0.03 0.03 0.04

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight
			Horz	Lateral	Vert					
			ft	ft	ft	°	ft	ft ²	ft ²	K
							1" Ice	30.00	30.00	0.06
6' Side Arm Mount	A	From Leg	3.00	0.00	0.00	216.00	2" Ice	4.54	1.23	0.05
							No Ice	7.80	2.55	0.08
							1/2" Ice	11.06	3.88	0.10
							1" Ice	17.57	6.53	0.16
ANT450F6	B	From Leg	6.00	0.00	4.00	216.00	2" Ice	0.79	0.79	0.01
							No Ice	1.01	1.01	0.02
							1/2" Ice	1.23	1.23	0.03
							1" Ice	1.72	1.72	0.05
6' Side Arm Mount	B	From Leg	3.00	0.00	0.00	216.00	2" Ice	4.54	1.23	0.05
							No Ice	7.80	2.55	0.08
							1/2" Ice	11.06	3.88	0.10
							1" Ice	17.57	6.53	0.16
** SC479-HF1LDF(DXX-E5765)	C	From Leg	6.00	0.00	-5.00	203.00	No Ice	4.03	4.03	0.03
							1/2" Ice	6.54	6.54	0.07
							Ice	8.04	8.04	0.11
							1" Ice	10.81	10.81	0.23
TMA (16" x 12" x 6")	C	From Leg	6.00	0.00	0.00	203.00	2" Ice	1.70	0.86	0.03
							No Ice	1.86	0.99	0.04
							1/2" Ice	2.04	1.12	0.06
							Ice	2.40	1.42	0.10
6' Side Arm Mount	C	From Leg	3.00	0.00	0.00	203.00	2" Ice	4.54	1.23	0.05
							No Ice	7.80	2.55	0.08
							1/2" Ice	11.06	3.88	0.10
							Ice	17.57	6.53	0.16
*** 96" x 4" x 6" Panel	B	From Leg	6.00	0.00	4.00	200.00	No Ice	4.00	6.80	0.02
							1/2" Ice	4.92	7.38	0.05
							Ice	5.61	7.98	0.09
							1" Ice	6.78	9.18	0.19
SC479-HF1LDF(DXX-E5765)	B	From Leg	6.00	0.00	-5.00	200.00	2" Ice	4.04	4.04	0.03
							No Ice	6.54	6.54	0.07
							1/2" Ice	8.04	8.04	0.11
							Ice	10.81	10.81	0.23
TMA (16" x 12" x 6")	B	From Leg	6.00	0.00	0.00	200.00	2" Ice	1.70	0.86	0.03
							No Ice	1.86	0.99	0.04
							1/2" Ice	2.04	1.12	0.06
							Ice	2.40	1.42	0.10
3' Side Arm Mount	B	From Leg	1.50	0.00	0.00	200.00	2" Ice	0.94	1.41	0.03
							No Ice	1.48	2.17	0.04
							1/2" Ice	2.02	2.93	0.06
							Ice	3.10	4.45	0.08
*** 8' x 2" Sch 40 Pipe Mount	A	From Leg	0.00	0.00	0.00	197.00	2" Ice	1.90	1.90	0.03
							No Ice	2.73	2.73	0.04
							1/2" Ice	3.40	3.40	0.06
							Ice	4.40	4.40	0.12
** 8' x 2" Sch 40 Pipe Mount	C	From Leg	0.00	0.00	0.00	195.00	2" Ice	1.90	1.90	0.03
							No Ice	2.73	2.73	0.04
							1/2" Ice	3.40	3.40	0.06
							Ice	4.40	4.40	0.12

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight
			Horz	Lateral	Vert					
			ft	ft	ft	°	ft	ft ²	ft ²	K
							2" Ice			

BCR-80010:90	C	From Leg	6.00	0.0000	175.00		No Ice	3.20	3.20	0.04
			0.00				1/2"	6.03	6.03	0.07
			6.00				Ice	6.80	6.80	0.11
							1" Ice	8.19	8.19	0.22
							2" Ice			
SC479-HF1LDF	B	From Leg	6.00	0.0000	175.00		No Ice	4.08	4.08	0.03
			0.00				1/2"	6.51	6.51	0.07
			6.00				Ice	8.00	8.00	0.11
							1" Ice	10.73	10.73	0.23
							2" Ice			
TMA (16" x 12" x 6")	B	From Leg	6.00	0.0000	175.00		No Ice	1.70	0.86	0.03
			0.00				1/2"	1.86	0.99	0.04
			0.00				Ice	2.04	1.12	0.06
							1" Ice	2.40	1.42	0.10
							2" Ice			
SC479-HF1LDF	B	From Leg	6.00	0.0000	175.00		No Ice	4.08	4.08	0.03
			0.00				1/2"	6.51	6.51	0.07
			-6.00				Ice	8.00	8.00	0.11
							1" Ice	10.73	10.73	0.23
							2" Ice			
BCR-80010:90	C	From Leg	6.00	0.0000	175.00		No Ice	3.20	3.20	0.04
			0.00				1/2"	6.03	6.03	0.07
			-6.00				Ice	6.80	6.80	0.11
							1" Ice	8.19	8.19	0.22
							2" Ice			
6' Side Arm Mount	B	From Leg	3.00	0.0000	175.00		No Ice	4.54	1.23	0.05
			0.00				1/2"	7.80	2.55	0.08
			0.00				Ice	11.06	3.88	0.10
							1" Ice	17.57	6.53	0.16
							2" Ice			
6' Side Arm Mount	C	From Leg	3.00	0.0000	175.00		No Ice	4.54	1.23	0.05
			0.00				1/2"	7.80	2.55	0.08
			0.00				Ice	11.06	3.88	0.10
							1" Ice	17.57	6.53	0.16
							2" Ice			

ANT450F6	C	From Leg	3.00	0.0000	165.00		No Ice	0.79	0.79	0.01
			0.00				1/2"	1.01	1.01	0.02
			3.00				Ice	1.23	1.23	0.03
							1" Ice	1.72	1.72	0.05
							2" Ice			
3' Side Arm Mount	C	From Leg	1.50	0.0000	165.00		No Ice	0.94	1.41	0.03
			0.00				1/2"	1.48	2.17	0.04
			0.00				Ice	2.02	2.93	0.06
							1" Ice	3.10	4.45	0.08
							2" Ice			

8' x 2" Sch 40 Pipe Mount	C	From Leg	0.00	0.0000	162.00		No Ice	1.90	1.90	0.03
			0.00				1/2"	2.73	2.73	0.04
			0.00				Ice	3.40	3.40	0.06
							1" Ice	4.40	4.40	0.12
							2" Ice			

(3) 12' V Frame	C	None		0.0000	155.00		No Ice	29.82	29.82	1.67
							1/2"	42.21	42.21	2.27
							Ice	54.43	54.43	3.05
							1" Ice	78.49	78.49	5.18
							2" Ice			
APXVTM14-C-120_TIA w/ Mount Pipe	A	From Leg	4.00	0.0000	155.00		No Ice	6.58	4.96	0.08
			0.00				1/2"	7.03	5.75	0.13
			0.00				Ice	7.47	6.47	0.19
							1" Ice	8.38	7.94	0.34
							2" Ice			

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA}	C _{AA}	Weight
			Horz	Lateral	Vert			Front	Side	
			ft	ft	ft	°	ft	ft ²	ft ²	K
APXVTM14-C-120_TIA w/ Mount Pipe	B	From Leg	4.00	0.0000	155.00	No Ice	6.58	4.96	0.08	
			0.00			1/2"	7.03	5.75	0.13	
			0.00			Ice	7.47	6.47	0.19	
						1" Ice	8.38	7.94	0.34	
						2" Ice				
APXVTM14-C-120_TIA w/ Mount Pipe	C	From Leg	4.00	0.0000	155.00	No Ice	6.58	4.96	0.08	
			0.00			1/2"	7.03	5.75	0.13	
			0.00			Ice	7.47	6.47	0.19	
						1" Ice	8.38	7.94	0.34	
						2" Ice				
NNVV-65B-R4_TIA w/ Mount Pipe	A	From Leg	4.00	0.0000	155.00	No Ice	12.51	7.41	0.10	
			0.00			1/2"	13.11	8.60	0.19	
			0.00			Ice	13.67	9.50	0.29	
						1" Ice	14.82	11.33	0.52	
						2" Ice				
NNVV-65B-R4_TIA w/ Mount Pipe	B	From Leg	4.00	0.0000	155.00	No Ice	12.51	7.41	0.10	
			0.00			1/2"	13.11	8.60	0.19	
			0.00			Ice	13.67	9.50	0.29	
						1" Ice	14.82	11.33	0.52	
						2" Ice				
NNVV-65B-R4_TIA w/ Mount Pipe	C	From Leg	4.00	0.0000	155.00	No Ice	12.51	7.41	0.10	
			0.00			1/2"	13.11	8.60	0.19	
			0.00			Ice	13.67	9.50	0.29	
						1" Ice	14.82	11.33	0.52	
						2" Ice				
(2) FD RRH 2x50 800	A	From Leg	4.00	0.0000	155.00	No Ice	1.70	1.32	0.05	
			0.00			1/2"	1.87	1.46	0.07	
			0.00			Ice	2.04	1.62	0.09	
						1" Ice	2.40	1.95	0.14	
						2" Ice				
(2) FD RRH 2x50 800	B	From Leg	4.00	0.0000	155.00	No Ice	1.70	1.32	0.05	
			0.00			1/2"	1.87	1.46	0.07	
			0.00			Ice	2.04	1.62	0.09	
						1" Ice	2.40	1.95	0.14	
						2" Ice				
(2) FD RRH 2x50 800	C	From Leg	4.00	0.0000	155.00	No Ice	1.70	1.32	0.05	
			0.00			1/2"	1.87	1.46	0.07	
			0.00			Ice	2.04	1.62	0.09	
						1" Ice	2.40	1.95	0.14	
						2" Ice				
FZHN	A	From Leg	4.00	0.0000	155.00	No Ice	2.02	0.61	0.04	
			0.00			1/2"	2.20	0.71	0.06	
			0.00			Ice	2.38	0.83	0.07	
						1" Ice	2.77	1.09	0.12	
						2" Ice				
FZHN	B	From Leg	4.00	0.0000	155.00	No Ice	2.02	0.61	0.04	
			0.00			1/2"	2.20	0.71	0.06	
			0.00			Ice	2.38	0.83	0.07	
						1" Ice	2.77	1.09	0.12	
						2" Ice				
FZHN	C	From Leg	4.00	0.0000	155.00	No Ice	2.02	0.61	0.04	
			0.00			1/2"	2.20	0.71	0.06	
			0.00			Ice	2.38	0.83	0.07	
						1" Ice	2.77	1.09	0.12	
						2" Ice				

MT6407-77A w/ Mount Pipe	A	From Leg	4.00	0.0000	145.00	No Ice	4.91	2.68	0.10	
			0.00			1/2"	5.26	3.14	0.14	
			0.00			Ice	5.61	3.62	0.18	
						1" Ice	6.36	4.63	0.29	
						2" Ice				
MT6407-77A w/ Mount Pipe	B	From Leg	4.00	0.0000	145.00	No Ice	4.91	2.68	0.10	
			0.00			1/2"	5.26	3.14	0.14	
			0.00			Ice	5.61	3.62	0.18	
						1" Ice	6.36	4.63	0.29	
						2" Ice				

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight	
			Horz	Lateral	Vert						ft
			ft	ft	ft	°	ft	ft ²	ft ²	K	
MT6407-77A w/ Mount Pipe	C	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	4.91	2.68	0.10
								1/2"	5.26	3.14	0.14
								Ice	5.61	3.62	0.18
AIR 6449 - LS6 w/Mount Pipe	A	From Leg	4.00	0.00	0.00	0.0000	145.00	1" Ice	6.36	4.63	0.29
								2" Ice			
								No Ice	4.95	4.23	0.11
								1/2"	5.50	4.96	0.16
AIR 6449 - LS6 w/Mount Pipe	B	From Leg	4.00	0.00	0.00	0.0000	145.00	Ice	5.98	5.56	0.22
								1" Ice	6.98	6.82	0.35
								2" Ice			
								No Ice	4.95	4.23	0.11
AIR 6449 - LS6 w/Mount Pipe	C	From Leg	4.00	0.00	0.00	0.0000	145.00	1/2"	5.50	4.96	0.16
								Ice	5.98	5.56	0.22
								1" Ice	6.98	6.82	0.35
								2" Ice			
LNx-6515DS-A1M_TIA w/ Mount Pipe	A	From Leg	0.00	0.00	0.00	0.0000	145.00	No Ice	11.71	9.87	0.08
								1/2"	12.43	11.39	0.17
								Ice	13.17	12.94	0.27
								1" Ice	14.55	15.30	0.50
LNx-6515DS-A1M_TIA w/ Mount Pipe	B	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	11.71	9.87	0.08
								1/2"	12.43	11.39	0.17
								Ice	13.17	12.94	0.27
LNx-6515DS-A1M_TIA w/ Mount Pipe	C	From Leg	0.00	0.00	0.00	0.0000	145.00	1" Ice	14.55	15.30	0.50
								2" Ice			
								No Ice	11.71	9.87	0.08
								1/2"	12.43	11.39	0.17
RC3DC-3315-PF-48	A	From Leg	4.00	0.00	0.00	0.0000	145.00	Ice	13.17	12.94	0.27
								1" Ice	14.55	15.30	0.50
								2" Ice			
								No Ice	3.79	2.51	0.03
RC3DC-3315-PF-48	B	From Leg	4.00	0.00	0.00	0.0000	145.00	1/2"	4.04	2.72	0.06
								Ice	4.30	2.94	0.10
								1" Ice	4.84	3.41	0.18
								2" Ice			
RC3DC-3315-PF-48	C	From Leg	4.00	0.00	0.00	0.0000	145.00	No Ice	3.79	2.51	0.03
								1/2"	4.04	2.72	0.06
								Ice	4.30	2.94	0.10
								1" Ice	4.84	3.41	0.18
(2) NHH-65C-R2B_TIA w/ Mount Pipe	A	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	11.63	9.79	0.08
								1/2"	12.35	11.31	0.17
								Ice	13.07	12.85	0.27
(2) NHH-65C-R2B_TIA w/ Mount Pipe	B	From Leg	0.00	0.00	0.00	0.0000	145.00	1" Ice	14.44	15.19	0.51
								2" Ice			
								No Ice	11.63	9.79	0.08
								1/2"	12.35	11.31	0.17
(2) NHH-65C-R2B_TIA w/ Mount Pipe	C	From Leg	0.00	0.00	0.00	0.0000	145.00	Ice	13.07	12.85	0.27
								1" Ice	14.44	15.19	0.51
								2" Ice			
								No Ice	11.63	9.79	0.08
(2) NHH-65C-R2B_TIA w/ Mount Pipe			0.00	0.00	0.00	0.0000	145.00	1/2"	12.35	11.31	0.17
								Ice	13.07	12.85	0.27
								1" Ice	14.44	15.19	0.51
								2" Ice			

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight	
			Horz	Lateral	Vert						ft
			ft	ft	ft	°	ft	ft ²	ft ²	K	
B2/B66A RRH-BR049	A	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
B2/B66A RRH-BR049	B	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
B2/B66A RRH-BR049	C	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
B5/B13 RRH-BR04C	A	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
B5/B13 RRH-BR04C	B	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
B5/B13 RRH-BR04C	C	From Leg	4.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	1.88	1.01	0.07
								1/2"	2.05	1.14	0.09
								Ice	2.22	1.28	0.11
								1" Ice	2.60	1.59	0.15
(3) VFA12-RRU Sector Frame	C	None			0.0000	145.00	2" Ice				
							No Ice	33.02	33.02	1.67	
							1/2"	47.36	47.36	2.22	
							Ice	61.70	61.70	2.77	
							1" Ice	90.38	90.38	3.88	
BSAMNT-SBS-1-2 (Mount Bracket)	A	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	0.00	0.00	0.07
								1/2"	0.00	0.00	0.09
								Ice	0.00	0.00	0.11
								1" Ice	0.00	0.00	0.15
BSAMNT-SBS-1-2 (Mount Bracket)	B	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	0.00	0.00	0.07
								1/2"	0.00	0.00	0.09
								Ice	0.00	0.00	0.11
								1" Ice	0.00	0.00	0.15
BSAMNT-SBS-1-2 (Mount Bracket)	C	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	0.00	0.00	0.07
								1/2"	0.00	0.00	0.09
								Ice	0.00	0.00	0.11
								1" Ice	0.00	0.00	0.15
2 Std. Mount Pipe Stabilizer	A	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	2.38	2.38	0.04
								1/2"	3.40	3.40	0.05
								Ice	4.45	4.45	0.08
								1" Ice	5.91	5.91	0.15
2 Std. Mount Pipe Stabilizer	B	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	2.38	2.38	0.04
								1/2"	3.40	3.40	0.05
								Ice	4.45	4.45	0.08
								1" Ice	5.91	5.91	0.15
2 Std. Mount Pipe Stabilizer	C	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	2.38	2.38	0.04
								1/2"	3.40	3.40	0.05
								Ice	4.45	4.45	0.08
								1" Ice	5.91	5.91	0.15

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} _{Front}	C _{AA} _{Side}	Weight	
			Horz	Lateral	Vert						ft
			ft	ft	ft	°	ft	ft ²	ft ²	K	
2.5 STD x Mount Pipe	A	From Leg	0.00	0.00	0.00	0.0000	145.00	2" Ice			
								No Ice	0.97	0.97	0.05
								1/2"	1.22	1.22	0.06
								Ice	1.48	1.48	0.07
								1" Ice	2.02	2.02	0.10
2.5 STD x Mount Pipe	B	From Leg	0.00	0.00	0.0000	145.00	145.00	2" Ice			
								No Ice	0.97	0.97	0.05
								1/2"	1.22	1.22	0.06
								Ice	1.48	1.48	0.07
								1" Ice	2.02	2.02	0.10
2.5 STD x Mount Pipe	C	From Leg	0.00	0.00	0.0000	145.00	145.00	2" Ice			
								No Ice	0.97	0.97	0.05
								1/2"	1.22	1.22	0.06
								Ice	1.48	1.48	0.07
								1" Ice	2.02	2.02	0.10
(4) L 2.5 x 2.5 x 3/16 x 6' Mount Angle	A	From Leg	0.00	0.00	0.0000	145.00	145.00	2" Ice			
								No Ice	2.50	0.09	0.02
								1/2"	3.09	0.76	0.02
								Ice	3.52	1.45	0.04
								1" Ice	4.42	2.86	0.08
(4) L 2.5 x 2.5 x 3/16 x 6' Mount Angle	B	From Leg	0.00	0.00	0.0000	145.00	145.00	2" Ice			
								No Ice	2.50	0.09	0.02
								1/2"	3.09	0.76	0.02
								Ice	3.52	1.45	0.04
								1" Ice	4.42	2.86	0.08
(4) L 2.5 x 2.5 x 3/16 x 6' Mount Angle	C	From Leg	0.00	0.00	0.0000	145.00	145.00	2" Ice			
								No Ice	2.50	0.09	0.02
								1/2"	3.09	0.76	0.02
								Ice	3.52	1.45	0.04
								1" Ice	4.42	2.86	0.08
***	Side Arm Mount [SO 311-1]	B	0.00	0.00	0.0000	128.00	128.00	2" Ice			
No Ice								1.67	4.53	0.06	
1/2"								2.43	6.41	0.10	
Ice								3.21	8.37	0.15	
1" Ice								4.84	12.72	0.28	
***	6' Side Arm Mount	C	3.00	0.00	0.0000	126.00	126.00	2" Ice			
No Ice								4.54	1.23	0.05	
1/2"								7.80	2.55	0.08	
Ice								11.06	3.88	0.10	
1" Ice								17.57	6.53	0.16	
***	CO-36A	B	6.00	0.00	0.0000	125.00	125.00	2" Ice			
No Ice								0.75	0.75	0.01	
1/2"								1.96	1.96	0.02	
Ice								3.19	3.19	0.04	
1" Ice								5.70	5.70	0.09	
6' Side Arm Mount	B	From Leg	3.00	0.00	0.0000	125.00	125.00	2" Ice			
								No Ice	4.54	1.23	0.05
								1/2"	7.80	2.55	0.08
								Ice	11.06	3.88	0.10
								1" Ice	17.57	6.53	0.16
***	ANT450F6	A	6.00	0.00	0.0000	124.00	124.00	2" Ice			
No Ice								0.79	0.79	0.01	
1/2"								1.01	1.01	0.02	
Ice								1.23	1.23	0.03	
1" Ice								1.72	1.72	0.05	
6' Side Arm Mount	A	From Leg	3.00	0.00	0.0000	124.00	124.00	2" Ice			
								No Ice	4.54	1.23	0.05
								1/2"	7.80	2.55	0.08
								Ice	11.06	3.88	0.10
								1" Ice	17.57	6.53	0.16

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment t °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K

8' x 2" Sch 40 Pipe Mount	C	From Leg	0.00 0.00 0.00	0.0000	123.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12

(2) ANT400D3	C	From Leg	3.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.95 1.19 1.45 1.99	0.95 1.19 1.45 1.99	0.01 0.02 0.03 0.06
ANT400D	C	From Leg	3.00 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.95 1.19 1.45 1.99	0.95 1.19 1.45 1.99	0.01 0.02 0.03 0.06
3' Side Arm Mount	C	From Leg	1.50 0.00 0.00	0.0000	118.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.94 1.48 2.02 3.10	1.41 2.17 2.93 4.45	0.03 0.04 0.06 0.08

3' Side Arm Mount	A	From Leg	1.50 0.00 0.00	0.0000	117.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.94 1.48 2.02 3.10	1.41 2.17 2.93 4.45	0.03 0.04 0.06 0.08

8' x 2" Sch 40 Pipe Mount	B	From Leg	0.00 0.00 0.00	0.0000	104.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.90 2.73 3.40 4.40	1.90 2.73 3.40 4.40	0.03 0.04 0.06 0.12

BR6155	A	From Leg	3.00 0.00 3.00	0.0000	95.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.00 1.39 1.70 2.35	1.00 1.39 1.70 2.35	0.02 0.02 0.03 0.07
3' Side Arm Mount	A	From Leg	1.50 0.00 0.00	0.0000	95.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.94 1.48 2.02 3.10	1.41 2.17 2.93 4.45	0.03 0.04 0.06 0.08

ANT400D3	A	From Leg	3.00 0.00 0.00	0.0000	55.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.95 1.19 1.45 1.99	0.95 1.19 1.45 1.99	0.01 0.02 0.03 0.06
3' Side Arm Mount	A	From Leg	1.50 0.00 0.00	0.0000	55.00	No Ice 1/2" Ice 1" Ice 2" Ice	0.94 1.48 2.02 3.10	1.41 2.17 2.93 4.45	0.03 0.04 0.06 0.08

Telewave ANT790	C	From Leg	3.00 0.00 5.00	0.0000	50.00	No Ice 1/2" Ice 1" Ice 2" Ice	1.58 2.29 2.60 3.24	1.58 2.29 2.60 3.24	0.02 0.04 0.06 0.12
3' Side Arm Mount	C	From Leg	1.50 0.00 0.00	0.0000	50.00	No Ice 1/2" Ice	0.94 1.48 2.02	1.41 2.17 2.93	0.03 0.04 0.06

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight K
						1" Ice	3.10	4.45	0.08
						2" Ice			
**									
**									
FAA L-864 Beacon	B	From Leg	0.00 0.00 0.00	0.0000	280.00	No Ice	1.20	1.20	0.05
						1/2"	2.20	2.20	0.08
						Ice	3.20	3.20	0.12
						1" Ice	5.20	5.20	0.19
						2" Ice			
FAA L-810 Sidelight	A	From Leg	0.50 0.00 0.00	0.0000	140.00	No Ice	0.20	0.20	0.00
						1/2"	0.40	0.40	0.01
						Ice	0.60	0.60	0.01
						1" Ice	1.00	1.00	0.01
						2" Ice			
FAA L-810 Sidelight	B	From Leg	0.50 0.00 0.00	0.0000	140.00	No Ice	0.20	0.20	0.00
						1/2"	0.40	0.40	0.01
						Ice	0.60	0.60	0.01
						1" Ice	1.00	1.00	0.01
						2" Ice			
FAA L-810 Sidelight	C	From Leg	0.00 0.00 0.00	0.0000	140.00	No Ice	0.20	0.20	0.00
						1/2"	0.40	0.40	0.01
						Ice	0.60	0.60	0.01
						1" Ice	1.00	1.00	0.01
						2" Ice			

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft	Aperture Area ft ²	Weight K	
PAL8-59	B	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	-37.0000		277.00	8.00	No Ice	50.27	0.29
									1/2" Ice	51.32	0.55
									1" Ice	52.37	0.81
									2" Ice	54.48	1.34
PAL8-59	A	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	2.0000		276.00	8.00	No Ice	50.27	0.29
									1/2" Ice	51.32	0.55
									1" Ice	52.37	0.81
									2" Ice	54.48	1.34

**											
PADX6-59AC	A	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	50.0000		252.00	6.00	No Ice	28.27	0.19
									1/2" Ice	29.07	0.33
									1" Ice	29.86	0.48
									2" Ice	31.44	0.78
**											
PAL8-59	C	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	2.0000		220.00	8.00	No Ice	50.27	0.29
									1/2" Ice	51.32	0.55
									1" Ice	52.37	0.81
									2" Ice	54.48	1.34
**											
PAL6	A	Paraboloid w/Radome	From Leg	0.50 0.00 0.00	46.0000		197.00	6.00	No Ice	28.27	0.19
									1/2" Ice	29.07	0.33
									1" Ice	29.86	0.48
									2" Ice	31.44	0.78
**											

Description	Face or Leg	Dish Type	Offset Type	Offsets:		Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				Horz Lateral	Vert							
				ft	ft	°	°	ft	ft	ft ²	K	
PAD10-59AC	C	Paraboloid w/Radome	From Leg	0.50	35.0000			195.00	10.00	No Ice	78.54	0.58
				0.00						1/2" Ice	79.85	0.99
				0.00						1" Ice	81.17	1.40
										2" Ice	83.80	2.22

PA6-65AC	C	Paraboloid w/Radome	From Leg	0.50	35.0000			162.00	6.00	No Ice	28.27	0.09
				0.00						1/2" Ice	29.07	0.24
				0.00						1" Ice	29.86	0.39
										2" Ice	31.44	0.69
**												
PRF-950	C	Grid	From Leg	6.00	0.0000			126.00	5.67	No Ice	25.22	0.04
				0.00						1/2" Ice	25.97	0.17
				0.00						1" Ice	26.71	0.31
										2" Ice	28.21	0.57
**												
SBX4-W60AC2	C	Paraboloid w/Radome	From Leg	0.50	-16.5000			123.00	4.14	No Ice	13.47	0.08
				0.00						1/2" Ice	14.02	0.15
				0.00						1" Ice	14.57	0.22
										2" Ice	15.66	0.37
**												
PRF-950	A	Grid	From Leg	3.00	0.0000			117.00	5.67	No Ice	25.22	0.04
				0.00						1/2" Ice	25.97	0.17
				0.00						1" Ice	26.71	0.31
										2" Ice	28.21	0.57

PA6-65AC	B	Paraboloid w/Radome	From Leg	0.50	37.0000			104.00	6.00	No Ice	28.27	0.07
				0.00						1/2" Ice	29.07	0.15
				0.00						1" Ice	29.86	0.23
										2" Ice	31.44	0.40

Truss-Leg Properties

Section Designation	Area	Area Ice	Self Weight	Ice Weight	Equiv. Diamete r	Equiv. Diamete r Ice	Leg Area
	in ²	in ²	K	K	in	in	in ²
Valmont 207628 (12x1.25)	2161.7740	6426.1003	0.48	1.80	7.5062	22.3128	3.6816
Valmont 207628 (12x1.25)	2161.7740	6420.4921	0.48	1.79	7.5062	22.2934	3.6816
Valmont 207628 (12x1.25)	2161.7740	6411.7118	0.48	1.77	7.5062	22.2629	3.6816
Valmont 207628 (12x1.25)	2161.7740	6399.2361	0.48	1.74	7.5062	22.2196	3.6816
Valmont 195557 (12x1.75)	1998.1590	5693.0512	0.78	1.75	6.9381	19.7675	7.2158
Valmont 195557 (12x1.75)	1998.1590	5687.3570	0.78	1.73	6.9381	19.7478	7.2158
Valmont 211843 (12x2)	2279.9276	5750.3284	1.02	1.67	7.9164	19.9664	9.4248
Valmont 208334 (12x2.25)	2264.8364	5809.2358	1.20	1.73	7.8640	20.1710	11.9282
Valmont 208334 (12x2.25)	2264.8364	5794.6756	1.20	1.69	7.8640	20.1204	11.9282
Valmont 208335 (12x2.5)	2550.6273	5850.2505	1.41	1.67	8.8563	20.3134	14.7262
Valmont 208337 (12x2.75)	2786.4655	5903.3711	1.69	1.69	9.6752	20.4978	17.8187
Valmont 208338 (12x3)	3229.8584	6769.7929	2.03	1.68	11.2148	23.5062	21.2058
Valmont 208338 (12x3)	3229.8584	6736.1257	2.03	1.60	11.2148	23.3893	21.2058

Section Designation	Area <i>in</i> ²	Area Ice <i>in</i> ²	Self Weight <i>K</i>	Ice Weight <i>K</i>	Equiv. Diamete <i>r</i> <i>in</i>	Equiv. Diamete <i>r</i> <i>Ice</i> <i>in</i>	Leg Area <i>in</i> ²
Valmont 208339 (12x3.25)	3392.5998	6764.3550	2.30	1.52	11.7799	23.4873	24.8873
Valmont 208339 (12x3.25)	3392.5998	6700.6556	2.30	1.38	11.7799	23.2662	24.8873
Valmont 208339 (12x3.25)	3392.5998	6574.2024	2.30	1.14	11.7799	22.8271	24.8873

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	761.49	88.65	-48.65
	Max. H _x	18	761.49	88.65	-48.65
	Max. H _z	5	-530.24	-61.57	42.73
	Min. Vert	7	-619.82	-76.86	41.56
	Min. H _x	7	-619.82	-76.86	41.56
	Min. H _z	18	761.49	88.65	-48.65
Leg B	Max. Vert	10	746.11	-88.92	-46.21
	Max. H _x	23	-605.13	76.38	39.10
	Max. H _z	23	-605.13	76.38	39.10
	Min. Vert	23	-605.13	76.38	39.10
	Min. H _x	10	746.11	-88.92	-46.21
	Min. H _z	10	746.11	-88.92	-46.21
Leg A	Max. Vert	2	737.03	-2.54	99.39
	Max. H _x	21	34.21	10.90	3.12
	Max. H _z	2	737.03	-2.54	99.39
	Min. Vert	15	-611.64	2.67	-86.15
	Min. H _x	8	49.51	-10.73	4.61
	Min. H _z	15	-611.64	2.67	-86.15

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	132.27	0.00	0.00	41.55	38.29	0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	158.72	0.79	-164.78	-23698.63	-72.94	-172.08
0.9 Dead+1.0 Wind 0 deg - No Ice	119.04	0.79	-164.78	-23695.99	-84.36	-172.08
1.2 Dead+1.0 Wind 30 deg - No Ice	158.72	78.49	-134.77	-19638.98	-11454.16	54.76
0.9 Dead+1.0 Wind 30 deg - No Ice	119.04	78.49	-134.77	-19638.92	-11458.33	54.75
1.2 Dead+1.0 Wind 60 deg - No Ice	158.72	136.33	-78.58	-11357.27	-19821.00	167.84
0.9 Dead+1.0 Wind 60 deg - No Ice	119.04	136.33	-78.58	-11362.54	-19819.88	167.82
1.2 Dead+1.0 Wind 90 deg - No Ice	158.72	155.28	0.07	117.61	-22491.28	230.36
0.9 Dead+1.0 Wind 90 deg - No Ice	119.04	155.28	0.07	105.01	-22488.45	230.33
1.2 Dead+1.0 Wind 120 deg - No Ice	158.72	143.69	82.98	12091.93	-20746.83	309.16
0.9 Dead+1.0 Wind 120 deg - No Ice	119.04	143.69	82.98	12071.74	-20745.03	309.15
1.2 Dead+1.0 Wind 150 deg - No Ice	158.72	77.24	133.31	19340.53	-11113.20	348.47
0.9 Dead+1.0 Wind 150 deg - No Ice	119.04	77.24	133.31	19315.69	-11117.64	348.37
1.2 Dead+1.0 Wind 180 deg - No Ice	158.72	0.13	155.28	22589.21	49.67	185.51
0.9 Dead+1.0 Wind 180 deg - No Ice	119.04	0.13	155.28	22562.29	38.11	185.46
1.2 Dead+1.0 Wind 210 deg - No Ice	158.72	-77.94	134.88	19916.42	11544.73	-37.72
0.9 Dead+1.0 Wind 210 deg - No Ice	119.04	-77.94	134.88	19891.10	11525.78	-37.70
1.2 Dead+1.0 Wind 240 deg - No Ice	158.72	-144.92	83.70	12323.15	21228.65	-152.79
0.9 Dead+1.0 Wind 240 deg - No Ice	119.04	-144.92	83.70	12302.76	21203.45	-152.81

Load Combination	Vertical	Shear _x	Shear _z	Overturning Moment, M _x	Overturning Moment, M _z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 270 deg - No Ice	158.72	-155.13	0.55	202.16	22614.03	-213.12
0.9 Dead+1.0 Wind 270 deg - No Ice	119.04	-155.13	0.55	189.50	22588.06	-213.09
1.2 Dead+1.0 Wind 300 deg - No Ice	158.72	-134.17	-76.81	-10994.14	19465.84	-296.24
0.9 Dead+1.0 Wind 300 deg - No Ice	119.04	-134.17	-76.81	-10999.64	19441.92	-296.16
1.2 Dead+1.0 Wind 330 deg - No Ice	158.72	-76.21	-131.73	-18862.06	11035.91	-332.12
0.9 Dead+1.0 Wind 330 deg - No Ice	119.04	-76.21	-131.73	-18862.57	11017.35	-332.02
1.2 Dead+1.0 Ice	422.96	0.00	-0.00	501.51	261.81	-0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice	422.96	0.30	-45.46	-6334.68	225.05	-62.93
1.2 Dead+1.0 Wind 30 deg+1.0 Ice	422.96	22.32	-38.24	-5297.65	-3121.79	23.64
1.2 Dead+1.0 Wind 60 deg+1.0 Ice	422.96	38.80	-22.38	-2872.81	-5603.46	77.33
1.2 Dead+1.0 Wind 90 deg+1.0 Ice	422.96	44.09	-0.10	501.64	-6382.07	98.20
1.2 Dead+1.0 Wind 120 deg+1.0 Ice	422.96	39.29	22.68	3915.46	-5640.75	116.33
1.2 Dead+1.0 Wind 150 deg+1.0 Ice	422.96	21.88	38.04	6232.96	-3036.41	118.63
1.2 Dead+1.0 Wind 180 deg+1.0 Ice	422.96	0.02	44.48	7225.79	259.59	65.78
1.2 Dead+1.0 Wind 210 deg+1.0 Ice	422.96	-22.02	38.38	6343.27	3618.98	-21.06
1.2 Dead+1.0 Wind 240 deg+1.0 Ice	422.96	-39.60	23.08	3990.77	6252.62	-76.17
1.2 Dead+1.0 Wind 270 deg+1.0 Ice	422.96	-44.00	0.06	519.03	6902.11	-97.58
1.2 Dead+1.0 Wind 300 deg+1.0 Ice	422.96	-38.13	-21.92	-2790.77	6004.49	-114.63
1.2 Dead+1.0 Wind 330 deg+1.0 Ice	422.96	-21.81	-37.70	-5160.57	3545.63	-114.81
Dead+Wind 0 deg - Service	132.27	0.15	-30.33	-4329.62	16.48	-31.80
Dead+Wind 30 deg - Service	132.27	14.45	-24.81	-3582.79	-2078.55	10.18
Dead+Wind 60 deg - Service	132.27	25.09	-14.46	-2058.28	-3618.72	31.22
Dead+Wind 90 deg - Service	132.27	28.58	0.01	54.00	-4110.41	42.87
Dead+Wind 120 deg - Service	132.27	26.44	15.27	2257.96	-3788.79	57.37
Dead+Wind 150 deg - Service	132.27	14.22	24.54	3592.86	-2016.06	64.44
Dead+Wind 180 deg - Service	132.27	0.02	28.58	4190.84	38.98	34.26
Dead+Wind 210 deg - Service	132.27	-14.35	24.83	3698.63	2155.03	-7.05
Dead+Wind 240 deg - Service	132.27	-26.67	15.40	2300.45	3937.05	-28.46
Dead+Wind 270 deg - Service	132.27	-28.55	0.10	69.53	4192.78	-39.70
Dead+Wind 300 deg - Service	132.27	-24.70	-14.14	-1991.64	3613.32	-54.99
Dead+Wind 330 deg - Service	132.27	-14.03	-24.25	-3440.19	2061.53	-61.44

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.00	-132.27	0.00	0.00	132.27	0.00	0.000%
2	0.79	-158.72	-164.78	-0.79	158.72	164.78	0.000%
3	0.79	-119.04	-164.78	-0.79	119.04	164.78	0.000%

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
4	78.49	-158.72	-134.77	-78.49	158.72	134.77	0.000%
5	78.49	-119.04	-134.77	-78.49	119.04	134.77	0.000%
6	136.33	-158.72	-78.58	-136.33	158.72	78.58	0.000%
7	136.33	-119.04	-78.58	-136.33	119.04	78.58	0.000%
8	155.28	-158.72	0.07	-155.28	158.72	-0.07	0.000%
9	155.28	-119.04	0.07	-155.28	119.04	-0.07	0.000%
10	143.69	-158.72	82.98	-143.69	158.72	-82.98	0.000%
11	143.69	-119.04	82.98	-143.69	119.04	-82.98	0.000%
12	77.24	-158.72	133.31	-77.24	158.72	-133.31	0.000%
13	77.24	-119.04	133.31	-77.24	119.04	-133.31	0.000%
14	0.13	-158.72	155.28	-0.13	158.72	-155.28	0.000%
15	0.13	-119.04	155.28	-0.13	119.04	-155.28	0.000%
16	-77.94	-158.72	134.88	77.94	158.72	-134.88	0.000%
17	-77.94	-119.04	134.88	77.94	119.04	-134.88	0.000%
18	-144.92	-158.72	83.70	144.92	158.72	-83.70	0.000%
19	-144.92	-119.04	83.70	144.92	119.04	-83.70	0.000%
20	-155.13	-158.72	0.55	155.13	158.72	-0.55	0.000%
21	-155.13	-119.04	0.55	155.13	119.04	-0.55	0.000%
22	-134.17	-158.72	-76.81	134.17	158.72	76.81	0.000%
23	-134.17	-119.04	-76.81	134.17	119.04	76.81	0.000%
24	-76.21	-158.72	-131.73	76.21	158.72	131.73	0.000%
25	-76.21	-119.04	-131.73	76.21	119.04	131.73	0.000%
26	0.00	-422.96	0.00	-0.00	422.96	0.00	0.000%
27	0.30	-422.96	-45.46	-0.30	422.96	45.46	0.000%
28	22.32	-422.96	-38.24	-22.32	422.96	38.24	0.000%
29	38.80	-422.96	-22.38	-38.80	422.96	22.38	0.000%
30	44.09	-422.96	-0.10	-44.09	422.96	0.10	0.000%
31	39.29	-422.96	22.68	-39.29	422.96	-22.68	0.000%
32	21.88	-422.96	38.04	-21.88	422.96	-38.04	0.000%
33	0.02	-422.96	44.48	-0.02	422.96	-44.48	0.000%
34	-22.02	-422.96	38.38	22.02	422.96	-38.38	0.000%
35	-39.60	-422.96	23.08	39.60	422.96	-23.08	0.000%
36	-44.00	-422.96	0.06	44.00	422.96	-0.06	0.000%
37	-38.13	-422.96	-21.92	38.13	422.96	21.92	0.000%
38	-21.81	-422.96	-37.70	21.81	422.96	37.70	0.000%
39	0.15	-132.27	-30.33	-0.15	132.27	30.33	0.000%
40	14.45	-132.27	-24.81	-14.45	132.27	24.81	0.000%
41	25.09	-132.27	-14.46	-25.09	132.27	14.46	0.000%
42	28.58	-132.27	0.01	-28.58	132.27	-0.01	0.000%
43	26.44	-132.27	15.27	-26.44	132.27	-15.27	0.000%
44	14.22	-132.27	24.54	-14.22	132.27	-24.54	0.000%
45	0.02	-132.27	28.58	-0.02	132.27	-28.58	0.000%
46	-14.35	-132.27	24.83	14.35	132.27	-24.83	0.000%
47	-26.67	-132.27	15.40	26.67	132.27	-15.40	0.000%
48	-28.55	-132.27	0.10	28.55	132.27	-0.10	0.000%
49	-24.70	-132.27	-14.14	24.70	132.27	14.14	0.000%
50	-14.03	-132.27	-24.25	14.03	132.27	24.25	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	4	0.00000001	0.00001132
3	Yes	4	0.00000001	0.00000775
4	Yes	4	0.00000001	0.00001337
5	Yes	4	0.00000001	0.00000977
6	Yes	4	0.00000001	0.00001502
7	Yes	4	0.00000001	0.00001130
8	Yes	4	0.00000001	0.00001333
9	Yes	4	0.00000001	0.00000974
10	Yes	4	0.00000001	0.00001128
11	Yes	4	0.00000001	0.00000773
12	Yes	4	0.00000001	0.00001337
13	Yes	4	0.00000001	0.00000978
14	Yes	4	0.00000001	0.00001503
15	Yes	4	0.00000001	0.00001131
16	Yes	4	0.00000001	0.00001337
17	Yes	4	0.00000001	0.00000975
18	Yes	4	0.00000001	0.00001120
19	Yes	4	0.00000001	0.00000762
20	Yes	4	0.00000001	0.00001332
21	Yes	4	0.00000001	0.00000972
22	Yes	4	0.00000001	0.00001500
23	Yes	4	0.00000001	0.00001129
24	Yes	4	0.00000001	0.00001340
25	Yes	4	0.00000001	0.00000981
26	Yes	4	0.00000001	0.00000488
27	Yes	4	0.00000001	0.00003932
28	Yes	4	0.00000001	0.00003941
29	Yes	4	0.00000001	0.00004060
30	Yes	4	0.00000001	0.00004065
31	Yes	4	0.00000001	0.00004193
32	Yes	4	0.00000001	0.00004295
33	Yes	4	0.00000001	0.00004437
34	Yes	4	0.00000001	0.00004407
35	Yes	4	0.00000001	0.00004347
36	Yes	4	0.00000001	0.00004231
37	Yes	4	0.00000001	0.00004175
38	Yes	4	0.00000001	0.00003984
39	Yes	4	0.00000001	0.00000990
40	Yes	4	0.00000001	0.00001013
41	Yes	4	0.00000001	0.00001040
42	Yes	4	0.00000001	0.00001008
43	Yes	4	0.00000001	0.00000995
44	Yes	4	0.00000001	0.00001014
45	Yes	4	0.00000001	0.00001047
46	Yes	4	0.00000001	0.00001029
47	Yes	4	0.00000001	0.00001006
48	Yes	4	0.00000001	0.00001016
49	Yes	4	0.00000001	0.00001040
50	Yes	4	0.00000001	0.00001006

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	280 - 270	3.713	47	0.1099	0.0150
T2	270 - 260	3.481	47	0.1098	0.0154
T3	260 - 240	3.248	47	0.1089	0.0161
T4	240 - 220	2.790	47	0.1036	0.0165
T5	220 - 210	2.359	47	0.0933	0.0166
T6	210 - 200	2.157	47	0.0897	0.0160
T7	200 - 180	1.961	47	0.0854	0.0156
T8	180 - 160	1.601	47	0.0770	0.0140
T9	160 - 140	1.277	47	0.0688	0.0120
T10	140 - 120	0.989	47	0.0590	0.0100

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T11	120 - 100	0.745	47	0.0498	0.0086
T12	100 - 80	0.538	47	0.0411	0.0071
T13	80 - 60	0.363	47	0.0332	0.0058
T14	60 - 40	0.222	47	0.0246	0.0044
T15	40 - 20	0.116	47	0.0168	0.0029
T16	20 - 0	0.037	47	0.0085	0.0015

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
280.00	Kreco CO-35A	47	3.713	0.1099	0.0150	Inf
277.00	PAL8-59	47	3.644	0.1099	0.0151	Inf
276.00	PAL8-59	47	3.620	0.1099	0.0151	Inf
260.00	DB589-Y	47	3.248	0.1089	0.0161	792863
257.00	(2) 10' 8-Bay Dipole	47	3.179	0.1084	0.0163	513784
254.00	DB212-C	47	3.109	0.1079	0.0164	376537
252.00	PADX6-59AC	47	3.063	0.1075	0.0164	319494
240.00	SD110-SFXPASNM	47	2.790	0.1036	0.0165	165619
228.00	Comprod 531-70HD	47	2.527	0.0973	0.0167	131285
220.00	PAL8-59	47	2.359	0.0933	0.0166	125198
216.00	SD110-SFXPASNM	47	2.278	0.0918	0.0164	162556
203.00	SC479-HF1LDF(DXX-E5765)	47	2.019	0.0867	0.0157	122505
200.00	96" x 4" x 6" Panel	47	1.961	0.0854	0.0156	101577
197.00	PAL6	47	1.904	0.0841	0.0154	98962
195.00	PAD10-59AC	47	1.867	0.0832	0.0153	101858
175.00	BCR-80010:90	47	1.517	0.0750	0.0135	141006
165.00	ANT450F6	47	1.355	0.0710	0.0126	148363
162.00	PA6-65AC	47	1.308	0.0697	0.0122	149828
155.00	(3) 12' V Frame	47	1.202	0.0664	0.0115	133558
145.00	MT6407-77A w/ Mount Pipe	47	1.057	0.0615	0.0105	107143
140.00	FAA L-810 Sidelight	47	0.989	0.0590	0.0100	100263
128.00	Side Arm Mount [SO 311-1]	47	0.838	0.0534	0.0091	119012
126.00	PRF-950	47	0.814	0.0524	0.0090	123555
125.00	CO-36A	47	0.802	0.0520	0.0089	125959
124.00	ANT450F6	47	0.791	0.0515	0.0089	128442
123.00	SBX4-W60AC2	47	0.779	0.0511	0.0088	130925
118.00	(2) ANT400D3	47	0.723	0.0489	0.0085	139289
117.00	PRF-950	47	0.712	0.0484	0.0084	139789
104.00	PA6-65AC	47	0.576	0.0428	0.0074	141741
95.00	BR6155	47	0.491	0.0392	0.0068	145101
55.00	ANT400D3	47	0.193	0.0226	0.0040	140019
50.00	Telewave ANT790	47	0.166	0.0207	0.0037	167077

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	280 - 270	19.975	18	0.5934	0.0804
T2	270 - 260	18.721	18	0.5925	0.0829
T3	260 - 240	17.466	18	0.5869	0.0868
T4	240 - 220	14.998	18	0.5573	0.0888
T5	220 - 210	12.682	18	0.5006	0.0892
T6	210 - 200	11.596	18	0.4812	0.0862
T7	200 - 180	10.542	18	0.4579	0.0837
T8	180 - 160	8.610	18	0.4130	0.0754
T9	160 - 140	6.875	18	0.3689	0.0648
T10	140 - 120	5.328	18	0.3167	0.0539
T11	120 - 100	4.015	18	0.2672	0.0464

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T12	100 - 80	2.899	18	0.2211	0.0385
T13	80 - 60	1.961	18	0.1784	0.0312
T14	60 - 40	1.201	18	0.1321	0.0237
T15	40 - 20	0.627	18	0.0904	0.0159
T16	20 - 0	0.204	18	0.0459	0.0080

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
280.00	Kreco CO-35A	18	19.975	0.5934	0.0804	541608
277.00	PAL8-59	18	19.599	0.5934	0.0809	541608
276.00	PAL8-59	18	19.474	0.5934	0.0811	541608
260.00	DB589-Y	18	17.466	0.5869	0.0868	139909
257.00	(2) 10' 8-Bay Dipole	18	17.091	0.5843	0.0876	92048
254.00	DB212-C	18	16.716	0.5813	0.0881	67148
252.00	PADX6-59AC	18	16.468	0.5790	0.0883	56657
240.00	SD110-SFXPASNM	18	14.998	0.5573	0.0888	29785
228.00	Comprod 531-70HD	18	13.584	0.5224	0.0898	23921
220.00	PAL8-59	18	12.682	0.5006	0.0892	22946
216.00	SD110-SFXPASNM	18	12.243	0.4925	0.0881	29822
203.00	SC479-HF1LDF(DXX-E5765)	18	10.854	0.4652	0.0845	22696
200.00	96" x 4" x 6" Panel	18	10.542	0.4579	0.0837	18835
197.00	PAL6	18	10.237	0.4507	0.0828	18367
195.00	PAD10-59AC	18	10.037	0.4460	0.0821	18918
175.00	BCR-80010:90	18	8.159	0.4024	0.0728	26390
165.00	ANT450F6	18	7.292	0.3806	0.0675	27760
162.00	PA6-65AC	18	7.041	0.3737	0.0659	28033
155.00	(3) 12' V Frame	18	6.469	0.3564	0.0619	24995
145.00	MT6407-77A w/ Mount Pipe	18	5.694	0.3299	0.0564	20059
140.00	FAA L-810 Sidelight	18	5.328	0.3167	0.0539	18770
128.00	Side Arm Mount [SO 311-1]	18	4.513	0.2865	0.0492	22212
126.00	PRF-950	18	4.386	0.2816	0.0485	23045
125.00	CO-36A	18	4.323	0.2792	0.0482	23485
124.00	ANT450F6	18	4.260	0.2768	0.0478	23939
123.00	SBX4-W60AC2	18	4.198	0.2743	0.0474	24393
118.00	(2) ANT400D3	18	3.895	0.2624	0.0456	25943
117.00	PRF-950	18	3.836	0.2600	0.0452	26044
104.00	PA6-65AC	18	3.107	0.2299	0.0401	26552
95.00	BR6155	18	2.648	0.2104	0.0366	27134
55.00	ANT400D3	18	1.042	0.1214	0.0217	26206
50.00	Telewave ANT790	18	0.895	0.1110	0.0198	31072

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T1	280	Diagonal	A325N	1.0000	1	3.27	19.47	0.168 ✓	1	Member Block Shear
		Secondary Horizontal	A325N	1.0000	1	1.51	15.24	0.099 ✓	1	Member Block Shear
		Top Girt	A325N	1.0000	1	0.49	20.34	0.024 ✓	1	Member Block Shear
T2	270	Leg	A325N	1.0000	6	1.22	54.52	0.022 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	1	4.20	19.47	0.216 ✓	1	Member Block Shear

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T3	260	Secondary Horizontal	A325N	1.0000	1	0.27	15.24	0.018 ✓	1	Member Block Shear
		Leg	A325N	1.0000	6	4.42	54.52	0.081 ✓	1	Bolt Tension
T4	240	Diagonal	A325N	1.0000	1	7.01	19.47	0.360 ✓	1	Member Block Shear
		Leg	A325N	1.0000	6	8.85	54.52	0.162 ✓	1	Bolt Tension
T5	220	Diagonal	A325N	1.0000	1	9.15	18.30	0.500 ✓	1	Member Block Shear
		Top Girt	A325N	1.0000	1	2.05	25.45	0.081 ✓	1	Member Bearing
		Mid Girt	A325N	1.0000	1	2.70	25.45	0.106 ✓	1	Member Bearing
		Diagonal	A325N	1.0000	1	11.49	18.30	0.628 ✓	1	Member Block Shear
T6	210	Leg	A325N	1.0000	12	7.25	54.52	0.133 ✓	1	Bolt Tension
		Diagonal	A325N	1.0000	1	12.17	18.30	0.665 ✓	1	Member Block Shear
T7	200	Secondary Horizontal	A325N	1.0000	1	1.90	25.45	0.075 ✓	1	Member Bearing
		Leg	A325N	1.0000	12	9.58	54.52	0.176 ✓	1	Bolt Tension
T8	180	Diagonal	A325N	0.8750	1	20.02	29.58	0.677 ✓	1	Gusset Bearing
		Leg	A325N	1.0000	12	13.19	54.52	0.242 ✓	1	Bolt Tension
T9	160	Diagonal	A325N	0.8750	1	22.48	29.58	0.760 ✓	1	Gusset Bearing
		Leg	A325N	1.0000	12	16.82	54.52	0.308 ✓	1	Bolt Tension
T10	140	Diagonal	A325N	0.8750	1	26.65	37.95	0.702 ✓	1	Member Block Shear
		Leg	A325N	1.0000	12	21.24	54.52	0.390 ✓	1	Bolt Tension
T11	120	Diagonal	A325N	0.8750	1	32.54	48.72	0.668 ✓	1	Gusset Bearing
		Leg	A325N	1.0000	12	25.99	54.52	0.477 ✓	1	Bolt Tension
T12	100	Diagonal	A325N	0.8750	2	16.90	39.15	0.432 ✓	1	Gusset Bearing
		Leg	A325N	1.2500	12	30.77	87.22	0.353 ✓	1	Bolt Tension
T13	80	Diagonal	A325N	0.8750	2	17.81	39.15	0.455 ✓	1	Gusset Bearing
		Leg	A325N	1.2500	12	35.53	87.22	0.407 ✓	1	Bolt Tension
T14	60	Diagonal	A325N	0.8750	2	18.62	39.15	0.476 ✓	1	Gusset Bearing
		Leg	A325N	1.2500	12	40.23	87.22	0.461 ✓	1	Bolt Tension
T15	40	Diagonal	A325N	0.8750	2	19.39	39.15	0.495 ✓	1	Gusset Bearing
		Leg	A325N	1.2500	12	44.98	87.22	0.516 ✓	1	Bolt Tension
T16	20	Diagonal	A325N	0.8750	2	19.97	39.15	0.510 ✓	1	Gusset Bearing
		Diagonal	A325N	0.8750	2	20.57	39.15	0.525 ✓	1	Gusset Bearing

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	Valmont 207628 (12x1.25)	10.02	10.02	45.4 K=1.00	3.6816	-4.65	142.49	0.033 ¹ ✓

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T2	270 - 260	Valmont 207628 (12x1.25)	10.02	10.02	45.4 K=1.00	3.6816	-10.63	142.49	0.075 ¹
T3	260 - 240	Valmont 207628 (12x1.25)	20.03	10.02	45.4 K=1.00	3.6816	-34.72	142.49	0.244 ¹
T4	240 - 220	Valmont 207628 (12x1.25)	20.03	10.02	45.4 K=1.00	3.6816	-67.34	142.49	0.473 ¹
T5	220 - 210	Valmont 195557 (12x1.75)	10.02	10.02	31.9 K=1.00	7.2158	-88.11	301.49	0.292 ¹
T6	210 - 200	Valmont 195557 (12x1.75)	10.02	10.02	31.9 K=1.00	7.2158	-109.32	301.49	0.363 ¹
T7	200 - 180	Valmont 211843 (12x2)	20.03	20.03	48.8 K=1.00	9.4248	-144.35	356.29	0.405 ¹
T8	180 - 160	Valmont 208334 (12x2.25)	20.03	20.03	48.8 K=1.00	11.928 2	-198.16	451.15	0.439 ¹
T9	160 - 140	Valmont 208334 (12x2.25)	20.03	20.03	48.8 K=1.00	11.928 2	-253.28	451.15	0.561 ¹
T10	140 - 120	Valmont 208335 (12x2.5)	20.03	20.03	48.7 K=1.00	14.726 2	-317.54	557.27	0.570 ¹
T11	120 - 100	Valmont 208337 (12x2.75)	20.03	20.03	48.6 K=1.00	17.818 7	-385.11	674.68	0.571 ¹
T12	100 - 80	Valmont 208338 (12x3)	20.03	20.03	48.5 K=1.00	21.205 7	-453.26	803.44	0.564 ¹
T13	80 - 60	Valmont 208338 (12x3)	20.03	20.03	48.5 K=1.00	21.205 7	-522.51	803.44	0.650 ¹
T14	60 - 40	Valmont 208339 (12x3.25)	20.03	20.03	48.4 K=1.00	24.887 3	-591.07	943.57	0.626 ¹
T15	40 - 20	Valmont 208339 (12x3.25)	20.03	20.03	48.4 K=1.00	24.887 3	-661.67	943.57	0.701 ¹
T16	20 - 0	Valmont 208339 (12x3.25)	20.03	20.03	48.4 K=1.00	24.887 3	-727.48	943.57	0.771 ¹

¹ P_u / φP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L _d ft	Kl/r	φP _n K	A in ²	V _u K	φV _n K	Stress Ratio
T1	280 - 270	0.5	1.48	121.0	165.67	0.1963	1.11	3.29	0.337
T2	270 - 260	0.5	1.48	121.0	165.67	0.1963	0.31	3.29	0.093
T3	260 - 240	0.5	1.48	121.0	165.67	0.1963	1.16	3.29	0.352
T4	240 - 220	0.5	1.48	121.0	165.67	0.1963	0.69	3.29	0.211
T5	220 - 210	0.5	1.44	117.6	324.71	0.1963	1.64	3.62	0.452
T6	210 - 200	0.5	1.44	117.6	324.71	0.1963	1.70	3.62	0.468
T7	200 - 180	0.5	1.39	113.2	424.12	0.1963	2.54	3.76	0.675
T8	180 - 160	0.5	1.38	112.2	536.77	0.1963	1.71	3.80	0.448
T9	160 - 140	0.5	1.38	112.2	536.77	0.1963	3.27	3.80	0.859

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	ϕP_n K	A in ²	V_u K	ϕV_n K	Stress Ratio
T10	140 - 120	0.5	1.36	111.2	662.68	0.1963	1.25	3.85	0.326
T11	120 - 100	0.625	1.35	88.2	801.84	0.3068	1.22	7.66	0.159
T12	100 - 80	0.625	1.34	87.4	954.26	0.3068	0.91	7.71	0.118
T13	80 - 60	0.625	1.34	87.4	954.26	0.3068	0.99	7.71	0.128
T14	60 - 40	0.625	1.33	86.7	1119.93	0.3068	1.20	7.77	0.154
T15	40 - 20	0.625	1.33	86.7	1119.93	0.3068	1.31	7.77	0.169
T16	20 - 0	0.625	1.33	86.7	1119.93	0.3068	1.30	7.77	0.168



Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 3 x 3 x 5/16	16.01	7.48	152.3 K=1.00	1.7800	-3.48	21.96	0.159 ¹
T2	270 - 260	L 3 x 3 x 5/16	16.80	7.88	160.6 K=1.00	1.7800	-4.45	19.76	0.225 ¹
T3	260 - 240	L 3 x 3 x 5/16	18.45	8.72	177.6 K=1.00	1.7800	-7.16	16.15	0.443 ¹
T4	240 - 220	L 4 x 4 x 1/4	20.16	9.58	144.6 K=1.00	1.9400	-10.10	26.54	0.381 ¹
T5	220 - 210	L 4 x 4 x 1/4	21.03	10.02	151.3 K=1.00	1.9400	-11.60	24.26	0.478 ¹
T6	210 - 200	L 4 x 4 x 1/4	21.92	10.47	158.0 K=1.00	1.9400	-12.24	22.24	0.551 ¹
T7	200 - 180	2L 3.5 x 3.5 x 1/4 (3/8)	29.01	14.29	164.1 K=1.00	3.3800	-20.87	34.61	0.603 ¹
T8	180 - 160	2L 'a' > 81.9131 in - 89 2L 3.5 x 3.5 x 1/4 (3/8)	30.49	15.03	172.5 K=1.00	3.3800	-22.56	31.42	0.718 ¹
T9	160 - 140	2L 'a' > 86.1510 in - 98 2L 4 x 4 x 1/4 (3/8)	32.02	15.80	159.5 K=1.00	3.8800	-28.02	41.27	0.679 ¹
T10	140 - 120	2L 'a' > 90.4521 in - 107 2L 4 x 4 x 3/8 (1/2)	33.61	16.59	165.7 K=1.00	5.7188	-32.54	58.42	0.557 ¹
T11	120 - 100	2L 'a' > 95.2708 in - 116 2L 4 x 4 x 3/8 (1/2)	35.23	17.34	173.2 K=1.00	5.7188	-34.13	53.60	0.637 ¹
T12	100 - 80	2L 'a' > 92.7523 in - 125 2L 5 x 5 x 5/16 (1/2)	36.90	18.17	146.4 K=1.00	6.0547	-36.30	75.43	0.481 ¹
T13	80 - 60	2L 'a' > 100.4316 in - 134 2L 5 x 5 x 5/16 (1/2)	38.59	19.02	153.2 K=1.00	6.0547	-37.65	69.37	0.543 ¹
T14	60 - 40	2L 'a' > 104.1226 in - 143 2L 5 x 5 x 5/16 (1/2)	40.32	19.88	160.2 K=1.00	6.0547	-39.60	63.90	0.620 ¹
T15	40 - 20	2L 'a' > 107.8743 in - 152 2L 5 x 5 x 5/16 (1/2)	42.06	20.76	167.2 K=1.00	6.0547	-40.18	58.96	0.681 ¹
		2L 'a' > 111.6793 in - 161							



Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T16	20 - 0	2L 5 x 5 x 5/16 (1/2)	43.83	21.64	174.3 K=1.00	6.0547	-42.94	54.49	0.788 ¹ ✓
2L 'a' > 115.5312 in - 170									

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 2.5 x 2.5 x 5/16	12.48	11.15	175.4 K=1.00	1.4600	-1.42	13.58	0.105 ¹ ✓
T2	270 - 260	L 2.5 x 2.5 x 5/16	13.48	12.15	191.2 K=1.00	1.4600	-0.22	11.43	0.019 ¹ ✓
T6	210 - 200	L 5 x 5 x 3/8	19.49	18.15	140.0 K=1.00	3.6100	-1.90	52.71	0.036 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 3.5 x 3.5 x 5/16	12.00	10.67	185.5 K=1.00	2.0900	-0.55	17.38	0.032 ¹ ✓
T4	240 - 220	L 5 x 5 x 3/8	16.00	14.67	177.8 K=1.00	3.6100	-1.70	32.69	0.052 ¹ ✓

¹ P_u / φP_n controls

Mid Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T4	240 - 220	L 5 x 5 x 3/8	17.00	15.67	189.9 K=1.00	3.6100	-2.35	28.65	0.082 ¹ ✓

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	Valmont 207628 (12x1.25)	10.02	10.02	45.4	3.6816	1.31	165.67	0.008 ¹
T2	270 - 260	Valmont 207628 (12x1.25)	10.02	10.02	45.4	3.6816	7.33	165.67	0.044 ¹
T3	260 - 240	Valmont 207628 (12x1.25)	20.03	10.02	45.4	3.6816	26.53	165.67	0.160 ¹
T4	240 - 220	Valmont 207628 (12x1.25)	20.03	10.02	45.4	3.6816	53.10	165.67	0.321 ¹
T5	220 - 210	Valmont 195557 (12x1.75)	10.02	10.02	31.9	7.2158	69.85	324.71	0.215 ¹
T6	210 - 200	Valmont 195557 (12x1.75)	10.02	10.02	31.9	7.2158	87.02	324.71	0.268 ¹
T7	200 - 180	Valmont 211843 (12x2)	20.03	20.03	48.8	9.4248	114.90	424.12	0.271 ¹
T8	180 - 160	Valmont 208334 (12x2.25)	20.03	20.03	48.8	11.928 2	158.31	536.77	0.295 ¹
T9	160 - 140	Valmont 208334 (12x2.25)	20.03	20.03	48.8	11.928 2	201.78	536.77	0.376 ¹
T10	140 - 120	Valmont 208335 (12x2.5)	20.03	20.03	48.7	14.726 2	254.85	662.68	0.385 ¹
T11	120 - 100	Valmont 208337 (12x2.75)	20.03	20.03	48.6	17.818 7	311.91	801.84	0.389 ¹
T12	100 - 80	Valmont 208338 (12x3)	20.03	20.03	48.5	21.205 7	369.21	954.26	0.387 ¹
T13	80 - 60	Valmont 208338 (12x3)	20.03	20.03	48.5	21.205 7	426.37	954.26	0.447 ¹
T14	60 - 40	Valmont 208339 (12x3.25)	20.03	20.03	48.4	24.887 3	482.75	1119.93	0.431 ¹
T15	40 - 20	Valmont 208339 (12x3.25)	20.03	20.03	48.4	24.887 3	539.72	1119.93	0.482 ¹
T16	20 - 0	Valmont 208339 (12x3.25)	20.03	20.03	48.4	24.887 3	593.16	1119.93	0.530 ¹

¹ P_u / φP_n controls

Truss-Leg Diagonal Data

Section No.	Elevation ft	Diagonal Size	L _d ft	Kl/r	φP _n K	A in ²	V _u K	φV _n K	Stress Ratio
T1	280 - 270	0.5	1.48	121.0	165.67	0.1963	1.11	3.29	0.337
T2	270 - 260	0.5	1.48	121.0	165.67	0.1963	0.31	3.29	0.093
T3	260 - 240	0.5	1.48	121.0	165.67	0.1963	1.16	3.29	0.352
T4	240 - 220	0.5	1.48	121.0	165.67	0.1963	0.69	3.29	0.211
T5	220 - 210	0.5	1.44	117.6	324.71	0.1963	1.64	3.62	0.452
T6	210 - 200	0.5	1.44	117.6	324.71	0.1963	1.70	3.62	0.468
T7	200 - 180	0.5	1.39	113.2	424.12	0.1963	2.54	3.76	0.675
T8	180 - 160	0.5	1.38	112.2	536.77	0.1963	1.71	3.80	0.448

Section No.	Elevation ft	Diagonal Size	L_d ft	Kl/r	$\phi P_n / K$	A in ²	V_u / K	$\phi V_n / K$	Stress Ratio
T9	160 - 140	0.5	1.38	112.2	536.77	0.1963	3.27	3.80	0.859
T10	140 - 120	0.5	1.36	111.2	662.68	0.1963	1.25	3.85	0.326
T11	120 - 100	0.625	1.35	88.2	801.84	0.3068	1.22	7.66	0.159
T12	100 - 80	0.625	1.34	87.4	954.26	0.3068	0.91	7.71	0.118
T13	80 - 60	0.625	1.34	87.4	954.26	0.3068	0.99	7.71	0.128
T14	60 - 40	0.625	1.33	86.7	1119.93	0.3068	1.20	7.77	0.154
T15	40 - 20	0.625	1.33	86.7	1119.93	0.3068	1.31	7.77	0.169
T16	20 - 0	0.625	1.33	86.7	1119.93	0.3068	1.30	7.77	0.168



Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in ²	P_u / K	$\phi P_n / K$	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 3 x 3 x 5/16	16.01	7.48	100.1	1.0713	3.27	46.60	0.070 ¹
T2	270 - 260	L 3 x 3 x 5/16	16.80	7.88	105.4	1.0713	4.20	46.60	0.090 ¹
T3	260 - 240	L 3 x 3 x 5/16	18.45	8.72	116.3	1.0713	7.01	46.60	0.150 ¹
T4	240 - 220	L 4 x 4 x 1/4	20.16	9.58	93.9	1.2441	9.15	54.12	0.169 ¹
T5	220 - 210	L 4 x 4 x 1/4	21.03	10.02	98.1	1.2441	11.49	54.12	0.212 ¹
T6	210 - 200	L 4 x 4 x 1/4	21.92	10.47	102.4	1.2441	12.17	54.12	0.225 ¹
T7	200 - 180	2L 3.5 x 3.5 x 1/4 (3/8)	29.01	14.29	159.7	2.1600	20.02	93.96	0.213 ¹
T8	180 - 160	2L 'a' > 81.9131 in - 88 2L 3.5 x 3.5 x 1/4 (3/8)	30.49	15.03	167.8	2.1600	22.48	93.96	0.239 ¹
T9	160 - 140	2L 'a' > 86.1510 in - 97 2L 4 x 4 x 1/4 (3/8)	32.02	15.80	153.7	2.5350	26.65	110.27	0.242 ¹
T10	140 - 120	2L 'a' > 90.4521 in - 106 2L 4 x 4 x 3/8 (1/2)	33.61	16.59	163.3	3.7266	32.01	162.10	0.197 ¹
T11	120 - 100	2L 'a' > 95.2708 in - 115 2L 4 x 4 x 3/8 (1/2)	35.23	17.34	171.2	3.7266	33.80	162.10	0.209 ¹
T12	100 - 80	2L 'a' > 92.7523 in - 124 2L 5 x 5 x 5/16 (1/2)	36.90	18.17	141.4	4.0723	35.63	177.14	0.201 ¹
T13	80 - 60	2L 'a' > 100.4316 in - 133 2L 5 x 5 x 5/16 (1/2)	38.59	19.02	147.9	4.0723	37.24	177.14	0.210 ¹
T14	60 - 40	2L 'a' > 104.1226 in - 142 2L 5 x 5 x 5/16 (1/2)	40.32	19.88	154.5	4.0723	38.77	177.14	0.219 ¹
		2L 'a' > 107.8743 in - 151							



Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T15	40 - 20	2L 5 x 5 x 5/16 (1/2)	42.06	20.76	161.2	4.0723	39.94	177.14	0.225 ¹ ✓
T16	20 - 0	2L 'a' > 111.6793 in - 160 2L 5 x 5 x 5/16 (1/2)	43.83	21.64	168.0	4.0723	41.13	177.14	0.232 ¹ ✓
		2L 'a' > 115.5312 in - 169							

¹ P_u / φP_n controls

Secondary Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 2.5 x 2.5 x 5/16	12.48	11.15	180.7	0.8313	1.51	36.16	0.042 ¹ ✓
T2	270 - 260	L 2.5 x 2.5 x 5/16	13.48	12.15	196.4	0.8313	0.27	36.16	0.008 ¹ ✓
T6	210 - 200	L 5 x 5 x 3/8	19.49	18.15	142.6	2.3911	1.90	104.01	0.018 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T1	280 - 270	L 3.5 x 3.5 x 5/16	12.00	10.67	122.2	1.3038	0.49	56.72	0.009 ¹ ✓
T4	240 - 220	L 5 x 5 x 3/8	16.00	14.67	115.7	2.3911	2.05	104.01	0.020 ¹ ✓

¹ P_u / φP_n controls

Mid Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	KI/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T4	240 - 220	L 5 x 5 x 3/8	17.00	15.67	123.4	2.3911	2.70	104.01	0.026 ¹ ✓

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail	
T1	280 - 270	Leg	Valmont 207628 (12x1.25)	2	-4.65	142.49	33.7	Pass	
T2	270 - 260	Leg	Valmont 207628 (12x1.25)	17	-9.92	142.49	9.3	Pass	
T3	260 - 240	Leg	Valmont 207628 (12x1.25)	30	-19.98	142.49	35.2	Pass	
T4	240 - 220	Leg	Valmont 207628 (12x1.25)	43	-67.34	142.49	47.3	Pass	
T5	220 - 210	Leg	Valmont 195557 (12x1.75)	64	-88.11	301.49	45.2	Pass	
T6	210 - 200	Leg	Valmont 195557 (12x1.75)	73	-109.32	301.49	46.8	Pass	
T7	200 - 180	Leg	Valmont 211843 (12x2)	85	-144.35	356.29	67.5	Pass	
T8	180 - 160	Leg	Valmont 208334 (12x2.25)	94	-198.16	451.15	44.8	Pass	
T9	160 - 140	Leg	Valmont 208334 (12x2.25)	103	-253.28	451.15	85.9	Pass	
T10	140 - 120	Leg	Valmont 208335 (12x2.5)	112	-317.54	557.27	57.0	Pass	
T11	120 - 100	Leg	Valmont 208337 (12x2.75)	121	-385.11	674.68	57.1	Pass	
T12	100 - 80	Leg	Valmont 208338 (12x3)	130	-453.26	803.44	56.4	Pass	
T13	80 - 60	Leg	Valmont 208338 (12x3)	139	-522.51	803.44	65.0	Pass	
T14	60 - 40	Leg	Valmont 208339 (12x3.25)	148	-591.07	943.57	62.6	Pass	
T15	40 - 20	Leg	Valmont 208339 (12x3.25)	157	-661.67	943.57	70.1	Pass	
T16	20 - 0	Leg	Valmont 208339 (12x3.25)	166	-727.48	943.57	77.1	Pass	
T1	280 - 270	Diagonal	L 3 x 3 x 5/16	9	-3.48	21.96	15.9	Pass	
T2	270 - 260	Diagonal	L 3 x 3 x 5/16	21	-4.45	19.76	22.5	Pass	
T3	260 - 240	Diagonal	L 3 x 3 x 5/16	36	-7.16	16.15	44.3	Pass	
T4	240 - 220	Diagonal	L 4 x 4 x 1/4	52	-10.10	26.54	38.1	Pass	
T5	220 - 210	Diagonal	L 4 x 4 x 1/4	67	-11.60	24.26	47.8	Pass	
T6	210 - 200	Diagonal	L 4 x 4 x 1/4	76	-12.24	22.24	55.1	Pass	
T7	200 - 180	Diagonal	2L 3.5 x 3.5 x 1/4 (3/8)	89	-20.87	34.61	60.3	Pass	
T8	180 - 160	Diagonal	2L 3.5 x 3.5 x 1/4 (3/8)	98	-22.56	31.42	71.8	Pass	
T9	160 - 140	Diagonal	2L 4 x 4 x 1/4 (3/8)	107	-28.02	41.27	67.9	Pass	
T10	140 - 120	Diagonal	2L 4 x 4 x 3/8 (1/2)	116	-32.54	58.42	55.7	Pass	
T11	120 - 100	Diagonal	2L 4 x 4 x 3/8 (1/2)	125	-34.13	53.60	63.7	Pass	
T12	100 - 80	Diagonal	2L 5 x 5 x 5/16 (1/2)	134	-36.30	75.43	48.1	Pass	
T13	80 - 60	Diagonal	2L 5 x 5 x 5/16 (1/2)	143	-37.65	69.37	54.3	Pass	
T14	60 - 40	Diagonal	2L 5 x 5 x 5/16 (1/2)	152	-39.60	63.90	62.0	Pass	
T15	40 - 20	Diagonal	2L 5 x 5 x 5/16 (1/2)	161	-40.18	58.96	68.1	Pass	
T16	20 - 0	Diagonal	2L 5 x 5 x 5/16 (1/2)	170	-42.94	54.49	78.8	Pass	
T1	280 - 270	Secondary Horizontal	L 2.5 x 2.5 x 5/16	14	-1.42	13.58	10.5	Pass	
T2	270 - 260	Secondary Horizontal	L 2.5 x 2.5 x 5/16	25	-0.22	11.43	1.9	Pass	
T6	210 - 200	Secondary Horizontal	L 5 x 5 x 3/8	84	-1.90	52.71	3.6	Pass	
T1	280 - 270	Top Girt	L 3.5 x 3.5 x 5/16	6	-0.55	17.38	3.2	Pass	
T4	240 - 220	Top Girt	L 5 x 5 x 3/8	47	-1.70	32.69	5.2	Pass	
T4	240 - 220	Mid Girt	L 5 x 5 x 3/8	50	-2.35	28.65	8.2	Pass	
							Summary		
							Leg (T9)	85.9	Pass
							Diagonal (T16)	78.8	Pass
							Secondary Horizontal (T1)	10.5	Pass
							Top Girt (T4)	5.2	Pass
							Mid Girt (T4)	8.2	Pass
							Bolt Checks	76.0	Pass
							RATING =	85.9	Pass

APPENDIX B
BASE LEVEL DRAWING

Feed Line Plan

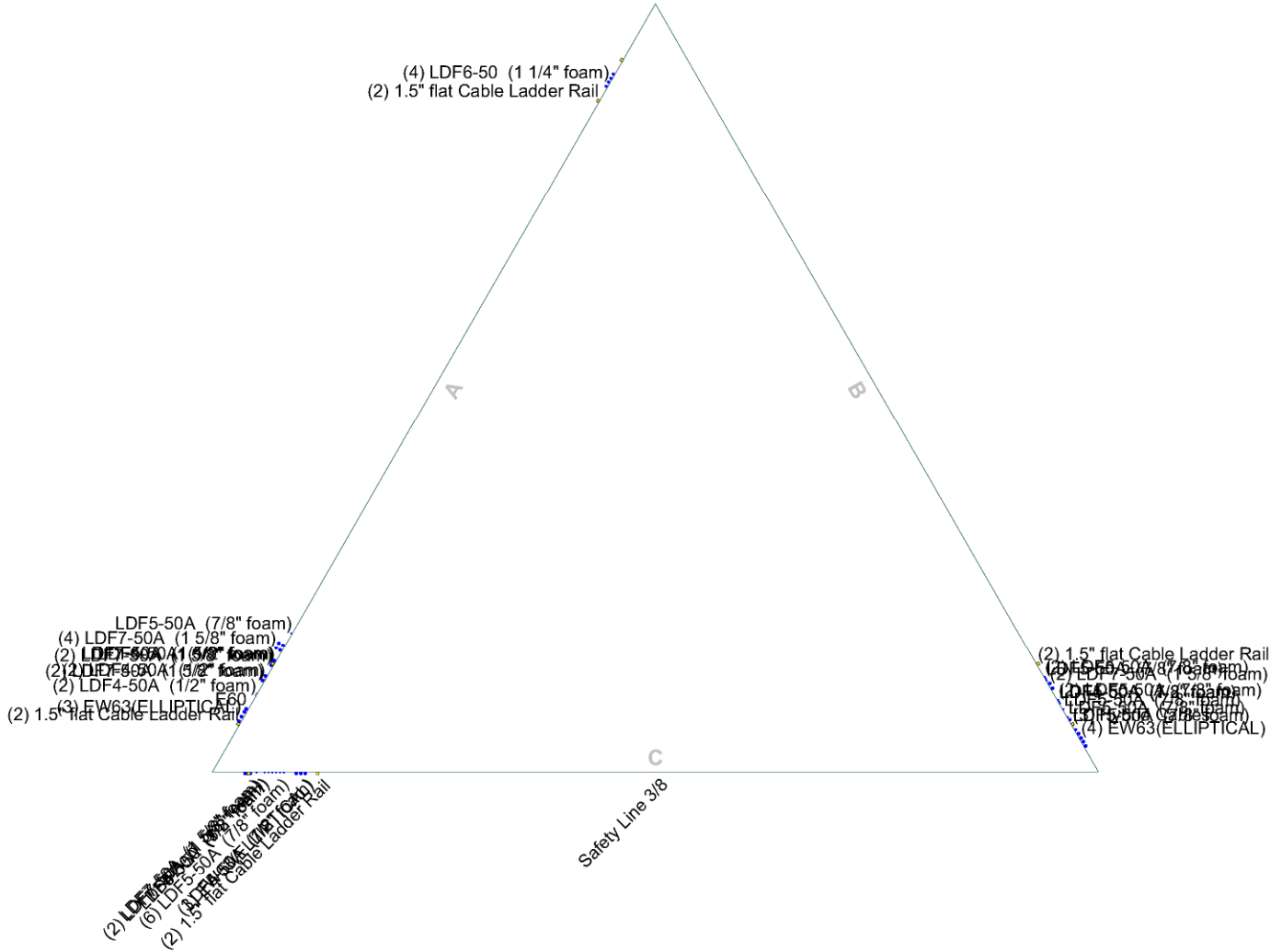
Round

Flat

App In Face

App Out Face

Truss-Leg



	Paul J. Ford and Company		Job: 280-ft Self Support Tower Haddam, CT		
	250 East Broad St., Suite 600		Project: 00019-0111		
	Columbus, OH 43215		Client: Hudson Design Group	Drawn by: Anna Trudo	App'd:
	Phone: 614-221-6679		Code: TIA-222-G	Date: 06/08/21	Scale: NTS
	FAX:		Path:	Dwg No. E-7	Scale: NTS

D:\TOWER\0019-0111\00019-0111.dwg Jobname: Self-CT00019-0111-08-2100 Scale: 00019-0111-08-2100

APPENDIX C
ADDITIONAL CALCULATIONS

Self-Support Tower Anchor Rod Capacity - TIA-H

Loads

Compression :	761 kips	Tension :	620 kips
Comp. Shear :	101 kips	Ten. Shear :	87 kips

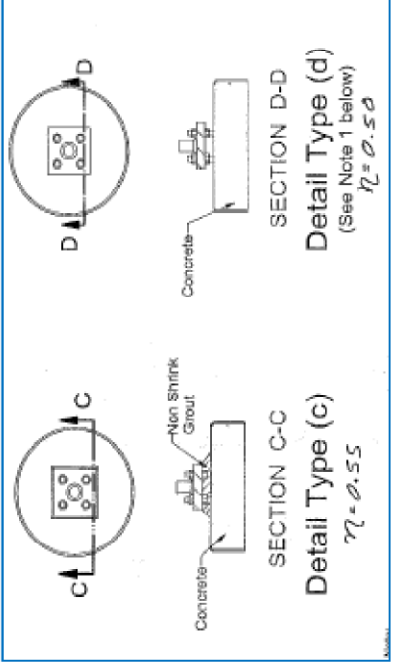
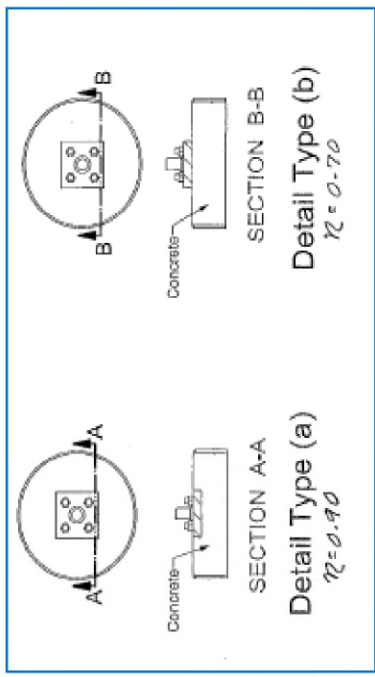
Code:	TIA-H
Maximum Ratio:	1.00
Grout $f_c \geq 5000$ psi:	

Existing Anchor Rods

Anchor Rod ϕ :	1 1/4 in
Anchor Rod Quantity :	12
Anchor Rod Grade :	F1554 Gr. 105

F_y :	105 ksi
F_u :	150 ksi
Threads per Inch	7
Net Tensile Area	0.97 in ²
ϕ_t :	0.75
$\phi_t R_{nt}$:	1308.30 kip
Anchor Rod Ratio :	0.699

l_{ar} :	1.25 inches	Ten. M_u :	70.69 k-in
Comp. M_u :	82.06 k-in		
ϕ_c :	1.00		
ϕ_v :	0.75		
ϕ_f :	0.90		
$\phi_v R_{nv}$:	828.35 kips		
$\phi_t M_n$:	244.15 k-in		
$\phi_c R_{nc}$:	1221.08 kips		
$\phi_c R_{nvc}$:	366.32 kips		



SST Unit Base Foundation

Job # : 00019-0111.009
 Site Name: Higganum South
 App. Number:

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Tower Centroid Offset?:	<input checked="" type="checkbox"/>
Block Foundation?:	<input type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions		
Global Moment, M :	24546	ft-kips
Global Axial, P :	159	kips
Global Shear, V :	167	kips
Leg Compression, P_{comp} :	761	kips
Leg Comp. Shear, V_{u,comp} :	101	kips
Leg Uplift, P_{uplift} :	620	kips
Leg Uplift. Shear, V_{u,uplift} :	87	kips
Tower Height, H :	280	ft
Base Face Width, BW :	40	ft
BP Dist. Above Fdn, bp_{dist} :		in

Foundation Analysis Checks				
	Capacity	Demand	Rating*	Check
<i>Lateral (Sliding) (kips)</i>	1043.62	167.00	15.2%	Pass
<i>Bearing Pressure (ksf)</i>	9.00	2.06	22.9%	Pass
<i>Overturning (kip*ft)</i>	45114.75	26556.09	58.9%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	4400.77	429.25	9.3%	Pass
<i>Pier Flexure (Tension) (kip*ft)</i>	2006.16	369.75	17.6%	Pass
<i>Pier Compression (kip)</i>	13059.63	779.18	5.7%	Pass
<i>Pad Flexure (kip*ft)</i>	12633.47	1575.27	11.9%	Pass
<i>Pad Shear - 1-way (kips)</i>	1233.26	231.34	17.9%	Pass
<i>Pad Shear - Comp 2-way (ksi)</i>	0.190	0.133	66.5%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	4855.73	257.55	5.1%	Pass
<i>Pad Shear - Tension 2-way (ksi)</i>	0.190	0.120	60.4%	Pass
<i>Flexural 2-way (Tension) (kip*ft)</i>	4855.73	221.85	4.4%	Pass

*Rating per TIA-222-H Section 15.5

Structural Rating*:	66.5%
Soil Rating*:	58.9%

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, dpier :	5.5	ft
Ext. Above Grade, E :	0.50	ft
Pier Rebar Size, Sc :	9	
Pier Rebar Quantity, mc :	26	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	8	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Pad Properties		
Depth, D :	6.00	ft
Pad Width, W₁ :	49.50	ft
Pad Thickness, T :	2.25	ft
Pad Rebar Size (Bottom dir. 2), Sp₂ :	11	
Pad Rebar Quantity (Bottom dir. 2), mp₂ :	91	
Pad Clear Cover, cc_{pad} :	3	in

Material Properties		
Rebar Grade, Fy :	60	ksi
Concrete Compressive Strength, F'c :	4	ksi
Dry Concrete Density, δc :	150	pcf

Soil Properties		
Total Soil Unit Weight, γ :	125	pcf
Ultimate Gross Bearing, Qult :	12.000	ksf
Cohesion, Cu :		ksf
Friction Angle, φ :	34	degrees
SPT Blow Count, N_{blows} :	62	
Base Friction, μ :	0.6	
Neglected Depth, N :	3.5	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, gw :	7	ft

<-- Toggle between Gross and Net

STANDARD CONDITIONS FOR FURNISHING OF PROFESSIONAL ENGINEERING SERVICES ON
EXISTING STRUCTURES BY PAUL J. FORD AND COMPANY

- 1) Paul J. Ford and Company has not made a field inspection to verify the tower member sizes or the antenna/coax loading. If the existing conditions are not as represented on these drawings, we should be contacted immediately to evaluate the significance of the deviation.
- 2) No allowance was made for any damaged, missing, or rusted members. The analysis of this tower assumes that no physical deterioration has occurred in any of the structural components of the tower and that all the tower members have the same load carrying capacity as the day the tower was erected.
- 3) It is not possible to have all the detailed information to perform a thorough analysis of every structural sub-component of an existing tower. The structural analysis by Paul J. Ford and Company verifies the adequacy of the main structural members of the tower. Paul J. Ford and Company provides a limited scope of service in that we cannot verify the adequacy of every weld, plate connection detail, etc.
- 4) The structural integrity of the existing tower foundation can only be verified if exact foundation sizes and soil conditions are known. Paul J. Ford and Company will not accept any responsibility for the adequacy of the existing foundations unless the foundation sizes and a soils report are provided.
- 5) This tower has been analyzed according to the minimum design wind loads recommended by the Telecommunications Industry Association Standard ANSI/TIA-222-H. If the owner or local or state agencies require a higher design wind load, Paul J. Ford and Company should be made aware of this requirement.
- 6) The enclosed sketches are a schematic representation of the tower that we have analyzed. If any material is fabricated from these sketches, the contractor shall be responsible for field verifying the existing conditions and for the proper fit and clearance in the field.
- 7) Miscellaneous items such as antenna mounts etc. have not been designed or detailed as a part of our work. We recommend that material of adequate size and strength be purchased from a reputable tower manufacturer.



Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
(856) 797-0412
peter.albano@colliersengineering.com

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10052870
Maser Consulting Connecticut Project #: 21777009A

April 16, 2021

Site Information

Site ID: 467746-VZW / HIGGANUM SOUTH CT
Site Name: HIGGANUM SOUTH CT
Carrier Name: Verizon Wireless
Address: 330 Pokorny Rd
Haddam, Connecticut 06441
Middlesex County
Latitude: 41.44358333°
Longitude: -72.56636111°

Structure Information

Tower Type: Self-Support
Mount Type: 12.00-Ft Sector Frame

FUZE ID # 16272133

Analysis Results

Sector Frame: **89.0% Pass**

***Contractor PMI Requirements:

Included at the end of this MA report

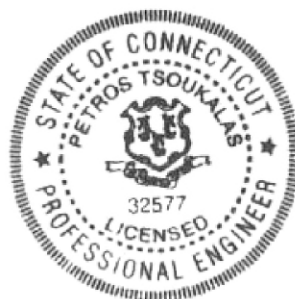
Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared By: Zachary Bandilla



Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 3111657, dated November 24, 2020</i>
<i>Mount Mapping Report</i>	<i>Level-Up Towers, Site ID: 467746, dated February 21, 2021</i>
<i>Previous Mount Analysis</i>	<i>Maser Consulting Connecticut, Project #: 21777009A, Dated March 10, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777009A, Dated April 16, 2021</i>

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 121 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: B Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.976
Seismic Parameters:	S_s : 0.213 S_1 : 0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, L_v : 250 lbs. Maintenance Live Load, L_m : 500 lbs.
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
144.00	145.00	3	Samsung	MT6407-77A	Added
		6	Commscope	NHH-65C-R2B	Retained
		3	Andrew	LNx-6515DS-A1M	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Raycap	RC3DC-3315-PF-48*	

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by Maser Consulting Connecticut, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer’s specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod F1554 (Gr. 36)
 - Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by Maser Consulting Connecticut.

Analysis Results:

Component	Utilization %	Pass/Fail
<i>Face Horizontal</i>	<i>84.3%</i>	<i>Pass</i>
<i>Mount Pipe</i>	<i>89.0%</i>	<i>Pass</i>
<i>Standoff Plate</i>	<i>48.7%</i>	<i>Pass</i>
<i>Standoff Horizontal</i>	<i>84.9%</i>	<i>Pass</i>
<i>Standoff Bracing</i>	<i>18.2%</i>	<i>Pass</i>
<i>Standoff Vertical</i>	<i>12.7%</i>	<i>Pass</i>
<i>Bracing Angle</i>	<i>16.6%</i>	<i>Pass</i>
<i>Tieback</i>	<i>31.8%</i>	<i>Pass</i>
<i>Mod Bracing</i>	<i>43.3%</i>	<i>Pass</i>
<i>Mod Horizontal</i>	<i>61.5%</i>	<i>Pass</i>
<i>Mount Connection</i>	<i>36.1%</i>	<i>Pass</i>

Structure Rating – (Controlling Utilization of all Components)	89.0%
---	--------------

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams



Mount Azimuth (Degree) for Each Sector		Tower Leg Azimuth (Degree) for Each Sector		Sector B													
Sector A:	30.00 Deg	Leg A:	Deg	Ant _{1a}	Commscope LNX-651	12.00	7.00	96.00		143.229	38.00	8.00	150.00	8			
Sector B:	150.00 Deg	Leg B:	Deg	Ant _{1b}													
Sector C:	270.00 Deg	Leg C:	Deg	Ant _{1c}													
Sector D:		Leg D:	Deg	Ant _{2a}	Samsung RFV01U-D1	16.00	12.00	16.00		143.146	39.00	10.00	150.00	9			
Climbing Facility Information				Ant _{2b}													
				Ant _{2c}													
Location:	C-Leg	Deg	Sector C	Ant _{3a}	Commscope NHH-65	12.00	7.00	96.00		143.063	40.00	11.00	150.00	158			
Climbing Facility	Corrosion Type:	Good condition.		Ant _{3b}	Commscope NHH-65	12.00	7.00	96.00		143.063	40.00	11.00	150.00	159			
	Access:	Climbing path was unobstructed.		Ant _{3c}	Samsung RFV01U-D2	16.00	10.00	16.00		142.896	42.00	10.00	150.00				
	Condition:	Good condition.		Ant _{4a}	Commscope HBXX-65	12.00	7.00	83.00		142.979	41.00	9.00	150.00	154			
				Ant _{4b}													
				Ant _{4c}													
				Ant _{5a}													
				Ant _{5b}													
				Ant _{5c}													
				Ant on Standoff													
				Ant on Standoff													
				Ant on Tower													
				Ant on Tower													
				Sector C													
				Ant _{1a}	Commscope LNX-651	12.00	7.00	96.00		143.229	38.00	8.00	270.00	113			
				Ant _{1b}													
				Ant _{1c}													
				Ant _{2a}	Samsung RFV01U-D1	16.00	12.00	16.00		143.146	39.00	10.00	270.00	115			
				Ant _{2b}													
Ant _{2c}																	
Ant _{3a}	Commscope NHH-65	12.00	7.00	96.00		143.063	40.00	11.00	270.00	121							
Ant _{3b}	Commscope NHH-65	12.00	7.00	96.00		143.063	40.00	11.00	270.00	126							
Ant _{3c}	Samsung RFV01U-D2	16.00	10.00	16.00		142.896	42.00	10.00	270.00	127							
Ant _{4a}	Commscope HBXX-65	12.00	7.00	83.00		142.979	41.00	9.00	270.00	135							
Ant _{4b}																	
Ant _{4c}																	
Ant _{5a}																	
Ant _{5b}																	
Ant on Standoff																	
Ant on Standoff																	
Ant on Tower																	
Ant on Tower																	
Sector D																	
Ant _{1a}																	
Ant _{1b}																	
Ant _{1c}																	
Ant _{2a}																	
Ant _{2b}																	
Ant _{2c}																	
Ant _{3a}																	
Ant _{3b}																	
Ant _{3c}																	
Ant _{4a}																	
Ant _{4b}																	
Ant _{4c}																	
Ant _{5a}																	
Ant _{5b}																	
Ant _{5c}																	
Ant on Standoff																	
Ant on Standoff																	
Ant on Tower																	
Ant on Tower																	

Observed Safety and Structural Issues During the Mount Mapping

Issue #	Description of Issue	Photo #
---------	----------------------	---------

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



Antenna Mount Mapping Form (PATENT PENDING)

FCC #

Tower Owner:	Eversource	Mapping Date:	2/21/2021
Site Name:	Higganum South	Tower Type:	Self Support
Site Number or ID:	467746	Tower Height (Ft.):	
Mapping Contractor:	Level-Up Towers	Mount Elevation (Ft.):	144

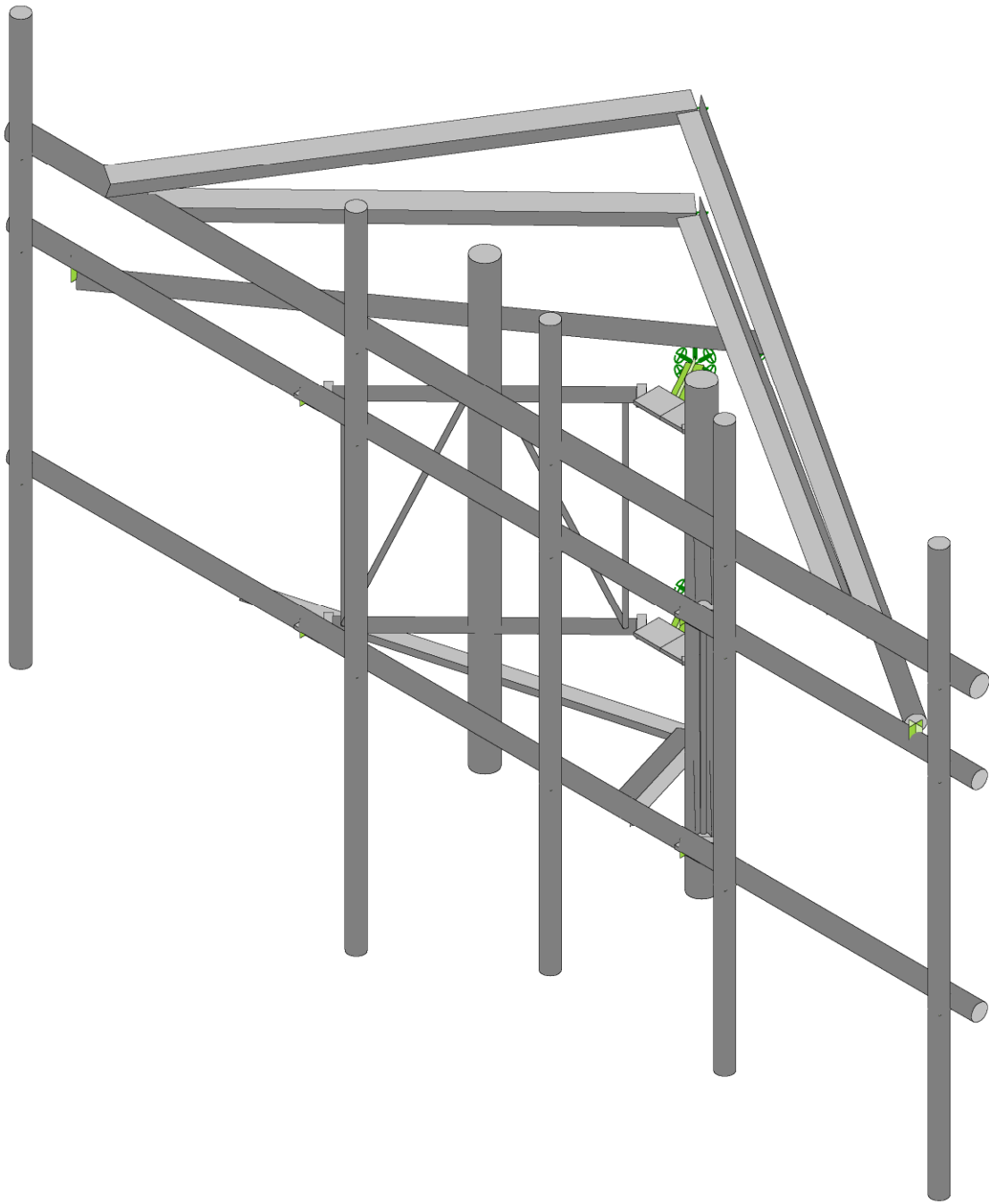
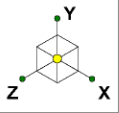
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

Please Insert Sketches of the Antenna Mount



Please Insert Sketches of the Antenna Mount, cont'd





Maser Consulting

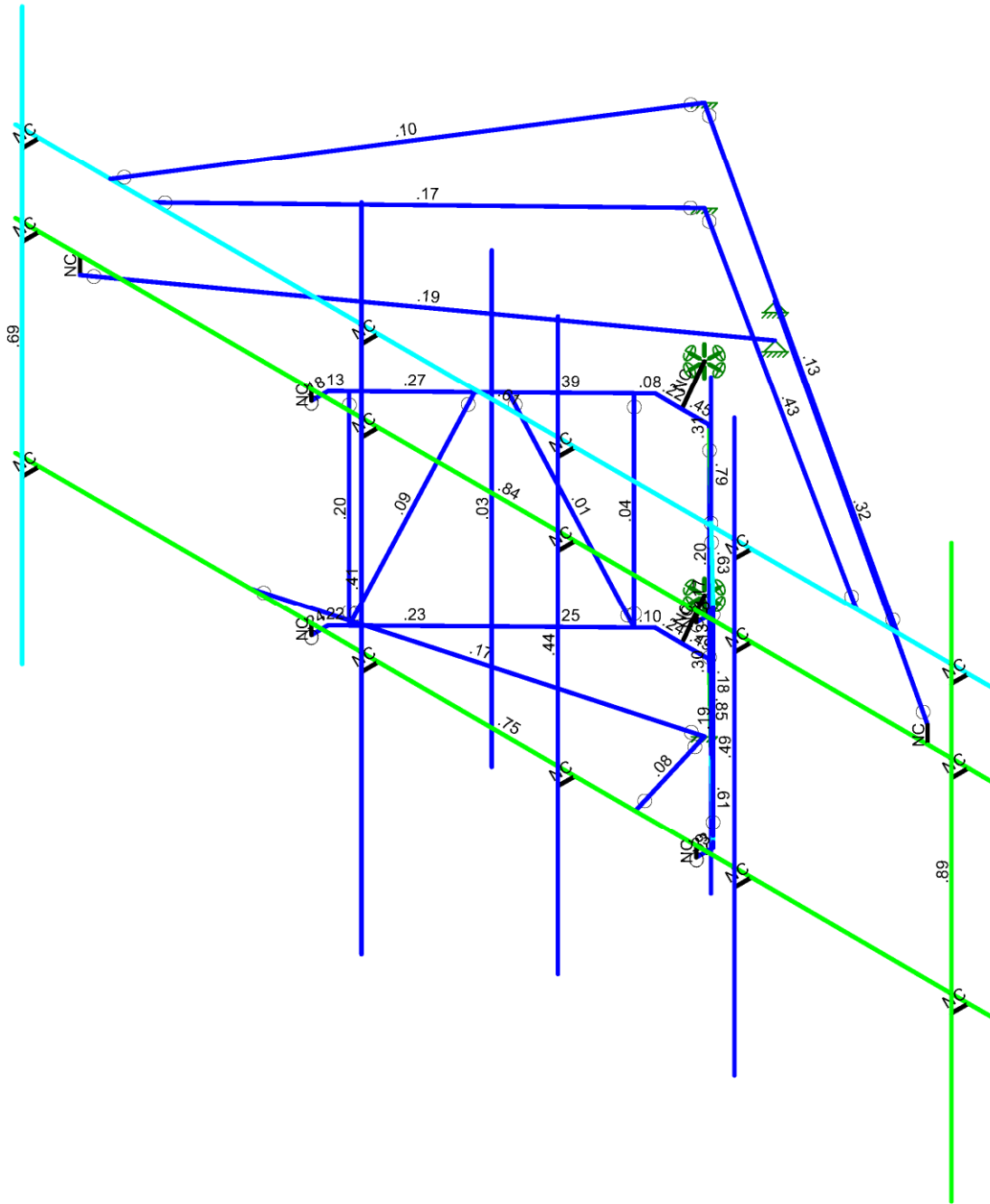
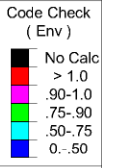
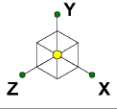
467746-VZW_MT_LOT_SectorA_H

SK - 1

Apr 14, 2021 at 2:54 PM

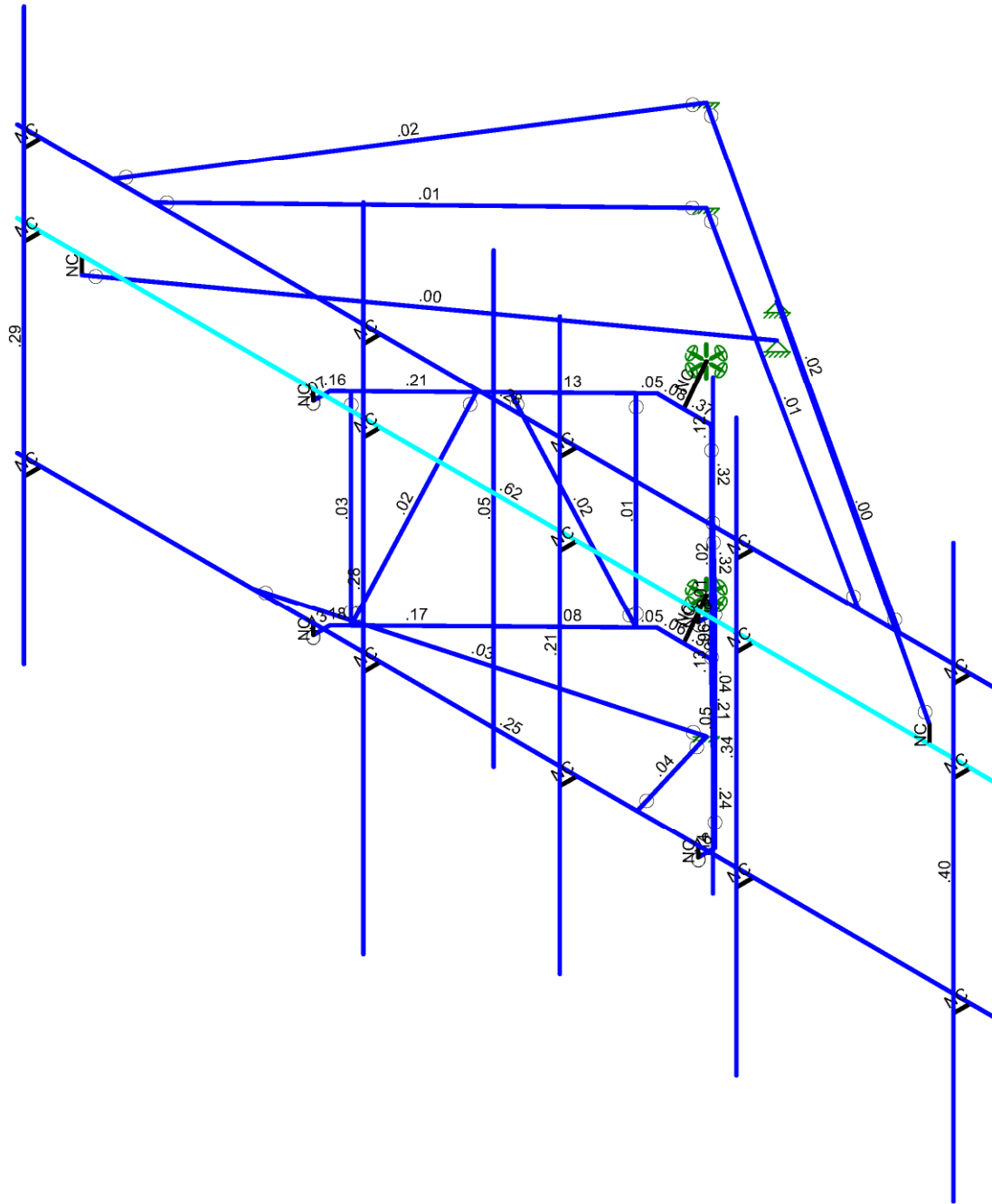
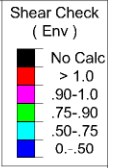
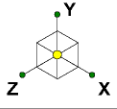
Project No. 10037848

467746-VZW_MT_LOT_A_H.r3d



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467746-VZW_MT_LOT_SectorA_H	SK - 2
Project No. 10037848		Apr 14, 2021 at 2:56 PM
		467746-VZW_MT_LOT_A_H.r3d



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Maser Consulting	467746-VZW_MT_LOT_SectorA_H	SK - 3
		Apr 14, 2021 at 2:57 PM
Project No. 10037848		467746-VZW_MT_LOT_A_H.r3d



Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					33		
2	Antenna Di	None					33		
3	Antenna Wo (0 Deg)	None					33		
4	Antenna Wo (30 Deg)	None					33		
5	Antenna Wo (60 Deg)	None					33		
6	Antenna Wo (90 Deg)	None					33		
7	Antenna Wo (120 Deg)	None					33		
8	Antenna Wo (150 Deg)	None					33		
9	Antenna Wo (180 Deg)	None					33		
10	Antenna Wo (210 Deg)	None					33		
11	Antenna Wo (240 Deg)	None					33		
12	Antenna Wo (270 Deg)	None					33		
13	Antenna Wo (300 Deg)	None					33		
14	Antenna Wo (330 Deg)	None					33		
15	Antenna Wi (0 Deg)	None					33		
16	Antenna Wi (30 Deg)	None					33		
17	Antenna Wi (60 Deg)	None					33		
18	Antenna Wi (90 Deg)	None					33		
19	Antenna Wi (120 Deg)	None					33		
20	Antenna Wi (150 Deg)	None					33		
21	Antenna Wi (180 Deg)	None					33		
22	Antenna Wi (210 Deg)	None					33		
23	Antenna Wi (240 Deg)	None					33		
24	Antenna Wi (270 Deg)	None					33		
25	Antenna Wi (300 Deg)	None					33		
26	Antenna Wi (330 Deg)	None					33		
27	Antenna Wm (0 Deg)	None					33		
28	Antenna Wm (30 Deg)	None					33		
29	Antenna Wm (60 Deg)	None					33		
30	Antenna Wm (90 Deg)	None					33		
31	Antenna Wm (120 Deg)	None					33		
32	Antenna Wm (150 Deg)	None					33		
33	Antenna Wm (180 Deg)	None					33		
34	Antenna Wm (210 Deg)	None					33		
35	Antenna Wm (240 Deg)	None					33		
36	Antenna Wm (270 Deg)	None					33		
37	Antenna Wm (300 Deg)	None					33		
38	Antenna Wm (330 Deg)	None					33		
39	Structure D	None		-1					
40	Structure Di	None						50	
41	Structure Wo (0 Deg)	None						100	
42	Structure Wo (30 Deg)	None						100	
43	Structure Wo (60 Deg)	None						100	
44	Structure Wo (90 Deg)	None						100	
45	Structure Wo (120 D...	None						100	
46	Structure Wo (150 D...	None						100	
47	Structure Wo (180 D...	None						100	
48	Structure Wo (210 D...	None						100	
49	Structure Wo (240 D...	None						100	
50	Structure Wo (270 D...	None						100	
51	Structure Wo (300 D...	None						100	
52	Structure Wo (330 D...	None						100	
53	Structure Wi (0 Deg)	None						100	
54	Structure Wi (30 Deg)	None						100	
55	Structure Wi (60 Deg)	None						100	
56	Structure Wi (90 Deg)	None						100	



Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						100	
58	Structure Wi (150 De...	None						100	
59	Structure Wi (180 De...	None						100	
60	Structure Wi (210 De...	None						100	
61	Structure Wi (240 De...	None						100	
62	Structure Wi (270 De...	None						100	
63	Structure Wi (300 De...	None						100	
64	Structure Wi (330 De...	None						100	
65	Structure Wm (0 Deg)	None						100	
66	Structure Wm (30 De...	None						100	
67	Structure Wm (60 De...	None						100	
68	Structure Wm (90 De...	None						100	
69	Structure Wm (120 D...	None						100	
70	Structure Wm (150 D...	None						100	
71	Structure Wm (180 D...	None						100	
72	Structure Wm (210 D...	None						100	
73	Structure Wm (240 D...	None						100	
74	Structure Wm (270 D...	None						100	
75	Structure Wm (300 D...	None						100	
76	Structure Wm (330 D...	None						100	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		

Load Combinations

	Description	Solve	P...	SR...	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
1	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	3	1	41	1						
2	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	4	1	42	1						
3	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	5	1	43	1						
4	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	6	1	44	1						
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1						
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1						
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1						
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1						
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1						
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1						
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1						
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1						
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1		
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1		
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1		
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1		
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1		
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1		
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1		
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1		
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1		
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1		
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1		
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1				
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1				
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1				
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1				



Load Combinations (Continued)

	Description	Solve	P...	SR...	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..	BLC Fact..
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y		1	1.4	39	1.4							
52	Seismic M...		Y		1	1	39	1							
53	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	-1	
54	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866	
55	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5	
56	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	1	SY	1	SZ		
57	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5	
58	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866	
59	1.2D + 1.0...		Y		1	1.2	39	1.2	SX		SY	1	SZ	1	
60	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866	
61	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5	
62	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-1	SY	1	SZ		
63	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5	
64	1.2D + 1.0...		Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866	

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N2	6	-3.489583	4.5425	0	
2	N3	-6	-3.489583	4.5425	0	
3	N5	6	-0.989583	4.5425	0	
4	N6	-6	-0.989583	4.5425	0	
5	N7	5.708333	-3.489583	4.5425	0	
6	N8	5.708333	-0.989583	4.5425	0	
7	N15	5.708333	-3.489583	4.750833	0	
8	N16	5.708333	-0.989583	4.750833	0	
9	N23	5.708333	1.510417	4.750833	0	
10	N27	5.708333	-5.489583	4.750833	0	
11	N32	-.375	-1.114583	1.704648	0	
12	N34	2.364583	-0.989583	4.5425	0	
13	N36	-2.364583	-0.989583	4.5425	0	
14	N38	2.364583	-1.114583	4.5425	0	
15	N40	-2.364583	-1.114583	4.5425	0	
16	N37	2.364583	-1.114583	4.334167	0	



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

Apr 14, 2021
 2:57 PM
 Checked By: _____

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	N38A	-2.364583	-1.114583	4.334167	0	
18	N40B	0	-1.114583	2.354167	0	
19	N41	0.333333	-1.114583	2.354167	0	
20	N42	-0.333333	-1.114583	2.354167	0	
21	N41A	-0.393007	-1.114583	2.412335	0	
22	N42A	0.393007	-1.114583	2.412335	0	
23	N43	-2.304888	-1.114583	4.275978	0	
24	N44	2.304888	-1.114583	4.275978	0	
25	N45	-1.348948	-1.114583	3.344156	0	
26	N46	1.348948	-1.114583	3.344156	0	
27	N47	-2.234727	-1.114583	4.207587	0	
28	N48	2.234727	-1.114583	4.207587	0	
29	N49	-0.462004	-1.114583	2.479591	0	
30	N50	0.462004	-1.114583	2.479591	0	
31	N51	-1.243355	-1.114583	3.241228	0	
32	N53	-1.453376	-1.114583	3.44595	0	
33	N66	-.375	-3.614583	1.704648	0	
34	N67	2.364583	-3.489583	4.5425	0	
35	N68	-2.364583	-3.489583	4.5425	0	
36	N69	2.364583	-3.614583	4.5425	0	
37	N70	-2.364583	-3.614583	4.5425	0	
38	N71	2.364583	-3.614583	4.334167	0	
39	N72	-2.364583	-3.614583	4.334167	0	
40	N73	0	-3.614583	2.354167	0	
41	N74	0.333333	-3.614583	2.354167	0	
42	N75	-0.333333	-3.614583	2.354167	0	
43	N76	-0.393007	-3.614583	2.412335	0	
44	N77	0.393007	-3.614583	2.412335	0	
45	N78	-2.304888	-3.614583	4.275978	0	
46	N79	2.304888	-3.614583	4.275978	0	
47	N80	-1.348948	-3.614583	3.344156	0	
48	N81	1.348948	-3.614583	3.344156	0	
49	N82	-2.234727	-3.614583	4.207587	0	
50	N83	2.234727	-3.614583	4.207587	0	
51	N84	-0.462004	-3.614583	2.479591	0	
52	N85	0.462004	-3.614583	2.479591	0	
53	N79A	-1.348948	0.395833	3.344156	0	
54	N80A	1.348948	0.395833	3.344156	0	
55	N81A	-1.348948	-5.104167	3.344156	0	
56	N82A	1.348948	-5.104167	3.344156	0	
57	N59	-3.114583	-3.489583	4.5425	0	
58	N60	1.614583	-3.489583	4.5425	0	
59	N61	-.375	-5.114583	1.704648	0	
60	N62	3.041667	-3.489583	4.5425	0	
61	N63	3.041667	-0.989583	4.5425	0	
62	N64	3.041667	-3.489583	4.750833	0	
63	N65	3.041667	-0.989583	4.750833	0	
64	N66A	3.041667	1.510417	4.750833	0	
65	N67A	3.041667	-5.489583	4.750833	0	
66	N68A	0.875	-3.489583	4.5425	0	
67	N69A	0.875	-0.989583	4.5425	0	
68	N70A	0.875	-3.489583	4.750833	0	
69	N71A	0.875	-0.989583	4.750833	0	
70	N72A	0.875	1.510417	4.750833	0	
71	N73A	0.875	-5.489583	4.750833	0	
72	N74A	-1.541667	-3.489583	4.5425	0	
73	N75A	-1.541667	-0.989583	4.5425	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
74	N76A	-1.541667	-3.489583	4.750833	0	
75	N77A	-1.541667	-0.989583	4.750833	0	
76	N78A	-1.541667	1.510417	4.750833	0	
77	N79B	-1.541667	-6.489583	4.750833	0	
78	N80B	-5.708333	-3.489583	4.5425	0	
79	N81B	-5.708333	-0.989583	4.5425	0	
80	N82B	-5.708333	-3.489583	4.750833	0	
81	N83A	-5.708333	-0.989583	4.750833	0	
82	N84A	-5.708333	1.510417	4.750833	0	
83	N85A	-5.708333	-5.489583	4.750833	0	
84	N86	5.208333	-0.989583	4.5425	0	
85	N87	-5.208333	-0.989583	4.5425	0	
86	N88	-5.208333	-1.197917	4.5425	0	
87	N89	5.208333	-0.78125	4.5425	0	
88	N92	-0.24477	-1.197917	0.966043	0	
89	N92A	-0.24477	-0.78125	0.966043	0	
90	N92B	1.243355	-1.114583	3.241228	0	
91	N93	1.453376	-1.114583	3.44595	0	
92	N92C	-.375	0.510417	1.704648	0	
93	N93A	-4.333333	0.010417	4.5425	0	
94	N94	4.333333	0.010417	4.5425	0	
95	N95	-.375	1.635417	1.704648	0	
96	N96	-4.833333	0.010417	4.5425	0	
97	N97	4.833333	0.010417	4.5425	0	
98	N98	6	0.010417	4.5425	0	
99	N99	-6	0.010417	4.5425	0	
100	N100	5.708333	0.010417	4.5425	0	
101	N101	5.708333	0.010417	4.750833	0	
102	N102	3.041667	0.010417	4.5425	0	
103	N103	3.041667	0.010417	4.750833	0	
104	N104	0.875	0.010417	4.5425	0	
105	N105	0.875	0.010417	4.750833	0	
106	N106	-1.541667	0.010417	4.5425	0	
107	N107	-1.541667	0.010417	4.750833	0	
108	N108	-5.708333	0.010417	4.5425	0	
109	N109	-5.708333	0.010417	4.750833	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design L...	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Face Horizontal	PIPE_2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
3	Tieback	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Plate	PL1/2x3.75	Beam	RECT	A36 Gr.36	Typical	1.875	.039	2.197	.143
5	Standoff Horizontal	PIPE 1.25	Beam	Pipe	A53 Gr. B	Typical	.625	.184	.184	.368
6	Standoff Vertical	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical	2.07	2.85	2.85	5.69
7	Standoff Bracing	SR 0.625 HRA	Column	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
8	Bracing Angle	L2.5x2.5x3	Column	Single A...	A36 Gr.36	Typical	.901	.535	.535	.011
9	Mod Bracing	L2.5x2.5x4	Column	Single A...	A36 Gr.36	Typical	1.19	.692	.692	.026
10	Mod Horizontal	PIPE_2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M1	Face Horizo...	12			Lbyy						Lateral
2	M2	Face Horizo...	12	4.729	4.729	Lbyy						Lateral
3	MP1A	Mount Pipe	7			Lbyy						Lateral
4	M17	Standoff Pla...	.208			Lbyy						Lateral
5	M18	Standoff Pla...	.208			Lbyy						Lateral
6	M21A	Standoff Pla...	.333			Lbyy						Lateral
7	M22A	Standoff Pla...	.333			Lbyy						Lateral
8	M22	Standoff Pla...	.083			Lbyy						Lateral
9	M23	Standoff Pla...	.083			Lbyy						Lateral
10	M24	Standoff Pla...	.083			Lbyy						Lateral
11	M25	Standoff Pla...	.083			Lbyy						Lateral
12	M26	Standoff Ho...	1.335			Lbyy						Lateral
13	M27	Standoff Ho...	1.335			Lbyy						Lateral
14	M28	Standoff Ho...	1.335			Lbyy						Lateral
15	M29	Standoff Ho...	1.335			Lbyy						Lateral
16	M37	Standoff Pla...	.208			Lbyy						Lateral
17	M38	Standoff Pla...	.208			Lbyy						Lateral
18	M39	Standoff Pla...	.333			Lbyy						Lateral
19	M40	Standoff Pla...	.333			Lbyy						Lateral
20	M42	Standoff Pla...	.083			Lbyy						Lateral
21	M43	Standoff Pla...	.083			Lbyy						Lateral
22	M44	Standoff Pla...	.083			Lbyy						Lateral
23	M45	Standoff Pla...	.083			Lbyy						Lateral
24	M46	Standoff Ho...	1.335			Lbyy						Lateral
25	M47	Standoff Ho...	1.335			Lbyy						Lateral
26	M48	Standoff Ho...	1.335			Lbyy						Lateral
27	M49	Standoff Ho...	1.335			Lbyy						Lateral
28	M45A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
29	M46A	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
30	M47A	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
31	M48A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
32	M49A	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
33	M50	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
34	M51	Standoff Br...	2.728			Lbyy			.7	.7		Lateral
35	M52	Standoff Br...	2.5			Lbyy			.7	.7		Lateral
36	M53	Standoff Ve...	5.5			Lbyy						Lateral
37	M54	Standoff Ve...	5.5			Lbyy						Lateral
38	M46B	Bracing Ang...	4.266									Lateral
39	M47B	Bracing Ang...	3.828									Lateral
40	MP2A	Mount Pipe	7			Lbyy						Lateral
41	MP3A	Mount Pipe	7			Lbyy						Lateral
42	MP4A	Mount Pipe	8			Lbyy						Lateral
43	MP5A	Mount Pipe	7			Lbyy						Lateral
44	M62	Tieback	6.118			Lbyy						Lateral
45	M63	Tieback	6.521			Lbyy						Lateral
46	M64	Mod Bracing	4.896									Lateral
47	M65	Mod Bracing	5.52									Lateral
48	M66	Mod Bracing	5.529									Lateral
49	M67	Mod Bracing	6.15									Lateral
50	M68	Mod Horizo...	12			Lbyy						Lateral

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N3	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N6	N5			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical



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Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
3	M3	N16	N8			RIGID	None	None	RIGID	Typical
4	M4	N15	N7			RIGID	None	None	RIGID	Typical
5	MP1A	N23	N27			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
6	M15	N36	N40			RIGID	None	None	RIGID	Typical
7	M16	N34	N38			RIGID	None	None	RIGID	Typical
8	M17	N40	N38A		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
9	M18	N38	N37		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
10	M21A	N40B	N42		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
11	M22A	N40B	N41		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
12	M21	N40B	N32			RIGID	None	None	RIGID	Typical
13	M22	N42	N41A		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
14	M23	N41	N42A		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
15	M24	N43	N38A		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
16	M25	N44	N37		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
17	M26	N41A	N45			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
18	M27	N42A	N46			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
19	M28	N45	N43			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
20	M29	N46	N44			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
21	M35	N68	N70			RIGID	None	None	RIGID	Typical
22	M36	N67	N69			RIGID	None	None	RIGID	Typical
23	M37	N70	N72		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
24	M38	N69	N71		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
25	M39	N73	N75		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
26	M40	N73	N74		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
27	M41	N73	N66			RIGID	None	None	RIGID	Typical
28	M42	N75	N76		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
29	M43	N74	N77		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
30	M44	N78	N72		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
31	M45	N79	N71		90	Standoff Plate	Beam	RECT	A36 Gr.36	Typical
32	M46	N76	N80			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
33	M47	N77	N81			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
34	M48	N80	N78			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
35	M49	N81	N79			Standoff Horiz...	Beam	Pipe	A53 Gr. B	Typical
36	M45A	N47	N82			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
37	M46A	N82	N53			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
38	M47A	N51	N84			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
39	M48A	N84	N49			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
40	M49A	N50	N85			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
41	M50	N85	N92B			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
42	M51	N93	N83			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
43	M52	N83	N48			Standoff Braci...	Column	BAR	A36 Gr.36	Typical
44	M53	N79A	N81A			Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
45	M54	N80A	N82A			Standoff Vertical	Column	Pipe	A53 Gr. B	Typical
46	M46B	N59	N61		90	Bracing Angle	Column	Single Angle	A36 Gr.36	Typical
47	M47B	N60	N61		180	Bracing Angle	Column	Single Angle	A36 Gr.36	Typical
48	M48B	N65	N63			RIGID	None	None	RIGID	Typical
49	M49B	N64	N62			RIGID	None	None	RIGID	Typical
50	MP2A	N66A	N67A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
51	M51A	N71A	N69A			RIGID	None	None	RIGID	Typical
52	M52A	N70A	N68A			RIGID	None	None	RIGID	Typical
53	MP3A	N72A	N73A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
54	M54A	N77A	N75A			RIGID	None	None	RIGID	Typical
55	M55	N76A	N74A			RIGID	None	None	RIGID	Typical
56	MP4A	N78A	N79B			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
57	M57	N83A	N81B			RIGID	None	None	RIGID	Typical
58	M58	N82B	N80B			RIGID	None	None	RIGID	Typical
59	MP5A	N84A	N85A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
60	M60	N87	N88			RIGID	None	None	RIGID	Typical
61	M61	N89	N86			RIGID	None	None	RIGID	Typical
62	M62	N88	N92			Tieback	Beam	Pipe	A53 Gr. B	Typical
63	M63	N89	N92A			Tieback	Beam	Pipe	A53 Gr. B	Typical
64	M64	N93A	N92C			Mod Bracing	Column	Single Angle	A36 Gr.36	Typical
65	M65	N94	N92C		270	Mod Bracing	Column	Single Angle	A36 Gr.36	Typical
66	M66	N96	N95			Mod Bracing	Column	Single Angle	A36 Gr.36	Typical
67	M67	N97	N95		270	Mod Bracing	Column	Single Angle	A36 Gr.36	Typical
68	M68	N99	N98			Mod Horizontal	Beam	Pipe	A53 Gr. B	Typical
69	M69	N101	N100			RIGID	None	None	RIGID	Typical
70	M70	N103	N102			RIGID	None	None	RIGID	Typical
71	M71	N105	N104			RIGID	None	None	RIGID	Typical
72	M72	N107	N106			RIGID	None	None	RIGID	Typical
73	M73	N109	N108			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes	Default			None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	MP1A						Yes	** NA **			None
6	M15	OOOXXO					Yes	** NA **			None
7	M16	OOOXXO					Yes	** NA **			None
8	M17						Yes	Default			None
9	M18						Yes				None
10	M21A						Yes				None
11	M22A						Yes				None
12	M21						Yes	** NA **			None
13	M22						Yes				None
14	M23						Yes				None
15	M24						Yes				None
16	M25						Yes				None
17	M26						Yes				None
18	M27						Yes				None
19	M28						Yes				None
20	M29						Yes				None
21	M35	OOOXXO					Yes	** NA **			None
22	M36	OOOXXO					Yes	** NA **			None
23	M37						Yes	Default			None
24	M38						Yes	Default			None
25	M39						Yes				None
26	M40						Yes				None
27	M41						Yes	** NA **			None
28	M42						Yes				None
29	M43						Yes				None
30	M44						Yes				None
31	M45						Yes				None
32	M46						Yes				None
33	M47						Yes				None
34	M48						Yes				None
35	M49						Yes				None
36	M45A	BenPIN	BenPIN				Yes	** NA **			None
37	M46A	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None
38	M47A	BenPIN	BenPIN			Euler Buc...	Yes	** NA **			None



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
39	M48A	BenPIN	BenPIN				Yes	** NA **			None
40	M49A	BenPIN	BenPIN				Yes	** NA **			None
41	M50	BenPIN	BenPIN				Euler Buc...	** NA **			None
42	M51	BenPIN	BenPIN				Euler Buc...	** NA **			None
43	M52	BenPIN	BenPIN				Yes	** NA **			None
44	M53						Yes	** NA **			None
45	M54						Yes	** NA **			None
46	M46B	BenPIN	BenPIN				Yes	** NA **			None
47	M47B	BenPIN	BenPIN				Yes	** NA **			None
48	M48B						Yes	** NA **			None
49	M49B						Yes	** NA **			None
50	MP2A						Yes	** NA **			None
51	M51A						Yes	** NA **			None
52	M52A						Yes	** NA **			None
53	MP3A						Yes	** NA **			None
54	M54A						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	MP4A						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	MP5A						Yes	** NA **			None
60	M60						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62	BenPIN					Yes	Default			None
63	M63	BenPIN					Yes	Default			None
64	M64	BenPIN	BenPIN				Yes	** NA **			None
65	M65	BenPIN	BenPIN				Yes	** NA **			None
66	M66	BenPIN	BenPIN				Yes	** NA **			None
67	M67	BenPIN	BenPIN				Yes	** NA **			None
68	M68						Yes	Default			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-43.55	3.25
2	MP5A	My	-.022	3.25
3	MP5A	Mz	0	3.25
4	MP5A	Y	-43.55	4.5
5	MP5A	My	-.022	4.5
6	MP5A	Mz	0	4.5
7	MP4A	Y	-25.8	1.25
8	MP4A	My	-.013	1.25
9	MP4A	Mz	.015	1.25
10	MP4A	Y	-25.8	6.5
11	MP4A	My	-.013	6.5
12	MP4A	Mz	.015	6.5
13	MP4A	Y	-25.8	1.25
14	MP4A	My	-.013	1.25
15	MP4A	Mz	-.015	1.25
16	MP4A	Y	-25.8	6.5
17	MP4A	My	-.013	6.5



Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
18	MP4A	Mz	-.015	6.5
19	MP1A	Y	-24.9	1.25
20	MP1A	My	-.012	1.25
21	MP1A	Mz	0	1.25
22	MP1A	Y	-24.9	6.5
23	MP1A	My	-.012	6.5
24	MP1A	Mz	0	6.5
25	MP2A	Y	-84.4	3
26	MP2A	My	-.042	3
27	MP2A	Mz	0	3
28	MP4A	Y	-70.3	3
29	MP4A	My	.035	3
30	MP4A	Mz	0	3
31	M54	Y	-32	2.75
32	M54	My	0	2.75
33	M54	Mz	0	2.75

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	Y	-35.804	3.25
2	MP5A	My	-.018	3.25
3	MP5A	Mz	0	3.25
4	MP5A	Y	-35.804	4.5
5	MP5A	My	-.018	4.5
6	MP5A	Mz	0	4.5
7	MP4A	Y	-79.693	1.25
8	MP4A	My	-.04	1.25
9	MP4A	Mz	.046	1.25
10	MP4A	Y	-79.693	6.5
11	MP4A	My	-.04	6.5
12	MP4A	Mz	.046	6.5
13	MP4A	Y	-79.693	1.25
14	MP4A	My	-.04	1.25
15	MP4A	Mz	-.046	1.25
16	MP4A	Y	-79.693	6.5
17	MP4A	My	-.04	6.5
18	MP4A	Mz	-.046	6.5
19	MP1A	Y	-80.006	1.25
20	MP1A	My	-.04	1.25
21	MP1A	Mz	0	1.25
22	MP1A	Y	-80.006	6.5
23	MP1A	My	-.04	6.5
24	MP1A	Mz	0	6.5
25	MP2A	Y	-45.108	3
26	MP2A	My	-.023	3
27	MP2A	Mz	0	3
28	MP4A	Y	-40.568	3
29	MP4A	My	.02	3
30	MP4A	Mz	0	3
31	M54	Y	-63.966	2.75
32	M54	My	0	2.75
33	M54	Mz	0	2.75

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25



Member Point Loads (BLC 3 : Antenna Wo (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP5A	Z	-80.807	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	-80.807	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	-195.828	1.25
9	MP4A	Mx	-.114	1.25
10	MP4A	X	0	6.5
11	MP4A	Z	-195.828	6.5
12	MP4A	Mx	-.114	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	-195.828	1.25
15	MP4A	Mx	.114	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	-195.828	6.5
18	MP4A	Mx	.114	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	-197.204	1.25
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	-197.204	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	-64.175	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3
29	MP4A	Z	-64.175	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	-94.41	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	34.257	3.25
2	MP5A	Z	-59.335	3.25
3	MP5A	Mx	-.017	3.25
4	MP5A	X	34.257	4.5
5	MP5A	Z	-59.335	4.5
6	MP5A	Mx	-.017	4.5
7	MP4A	X	89.888	1.25
8	MP4A	Z	-155.691	1.25
9	MP4A	Mx	-.136	1.25
10	MP4A	X	89.888	6.5
11	MP4A	Z	-155.691	6.5
12	MP4A	Mx	-.136	6.5
13	MP4A	X	89.888	1.25
14	MP4A	Z	-155.691	1.25
15	MP4A	Mx	.046	1.25
16	MP4A	X	89.888	6.5
17	MP4A	Z	-155.691	6.5
18	MP4A	Mx	.046	6.5
19	MP1A	X	90.492	1.25
20	MP1A	Z	-156.737	1.25
21	MP1A	Mx	-.045	1.25



Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP1A	X	90.492	6.5
23	MP1A	Z	-156.737	6.5
24	MP1A	Mx	-.045	6.5
25	MP2A	X	29.428	3
26	MP2A	Z	-50.97	3
27	MP2A	Mx	-.015	3
28	MP4A	X	28.409	3
29	MP4A	Z	-49.206	3
30	MP4A	Mx	.014	3
31	M54	X	38.318	2.75
32	M54	Z	-66.369	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	38.043	3.25
2	MP5A	Z	-21.964	3.25
3	MP5A	Mx	-.019	3.25
4	MP5A	X	38.043	4.5
5	MP5A	Z	-21.964	4.5
6	MP5A	Mx	-.019	4.5
7	MP4A	X	127.889	1.25
8	MP4A	Z	-73.837	1.25
9	MP4A	Mx	-.107	1.25
10	MP4A	X	127.889	6.5
11	MP4A	Z	-73.837	6.5
12	MP4A	Mx	-.107	6.5
13	MP4A	X	127.889	1.25
14	MP4A	Z	-73.837	1.25
15	MP4A	Mx	-.021	1.25
16	MP4A	X	127.889	6.5
17	MP4A	Z	-73.837	6.5
18	MP4A	Mx	-.021	6.5
19	MP1A	X	128.643	1.25
20	MP1A	Z	-74.272	1.25
21	MP1A	Mx	-.064	1.25
22	MP1A	X	128.643	6.5
23	MP1A	Z	-74.272	6.5
24	MP1A	Mx	-.064	6.5
25	MP2A	X	41.757	3
26	MP2A	Z	-24.108	3
27	MP2A	Mx	-.021	3
28	MP4A	X	36.463	3
29	MP4A	Z	-21.052	3
30	MP4A	Mx	.018	3
31	M54	X	58.673	2.75
32	M54	Z	-33.875	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	31.636	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	-.016	3.25
4	MP5A	X	31.636	4.5
5	MP5A	Z	0	4.5



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP5A	Mx	-.016	4.5
7	MP4A	X	131.622	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	-.066	1.25
10	MP4A	X	131.622	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	-.066	6.5
13	MP4A	X	131.622	1.25
14	MP4A	Z	0	1.25
15	MP4A	Mx	-.066	1.25
16	MP4A	X	131.622	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-.066	6.5
19	MP1A	X	132.324	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	-.066	1.25
22	MP1A	X	132.324	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	-.066	6.5
25	MP2A	X	42.898	3
26	MP2A	Z	0	3
27	MP2A	Mx	-.021	3
28	MP4A	X	34.747	3
29	MP4A	Z	0	3
30	MP4A	Mx	.017	3
31	M54	X	76.637	2.75
32	M54	Z	0	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	38.043	3.25
2	MP5A	Z	21.964	3.25
3	MP5A	Mx	-.019	3.25
4	MP5A	X	38.043	4.5
5	MP5A	Z	21.964	4.5
6	MP5A	Mx	-.019	4.5
7	MP4A	X	127.889	1.25
8	MP4A	Z	73.837	1.25
9	MP4A	Mx	-.021	1.25
10	MP4A	X	127.889	6.5
11	MP4A	Z	73.837	6.5
12	MP4A	Mx	-.021	6.5
13	MP4A	X	127.889	1.25
14	MP4A	Z	73.837	1.25
15	MP4A	Mx	-.107	1.25
16	MP4A	X	127.889	6.5
17	MP4A	Z	73.837	6.5
18	MP4A	Mx	-.107	6.5
19	MP1A	X	128.643	1.25
20	MP1A	Z	74.272	1.25
21	MP1A	Mx	-.064	1.25
22	MP1A	X	128.643	6.5
23	MP1A	Z	74.272	6.5
24	MP1A	Mx	-.064	6.5
25	MP2A	X	41.757	3



Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP2A	Z	24.108	3
27	MP2A	Mx	-.021	3
28	MP4A	X	36.463	3
29	MP4A	Z	21.052	3
30	MP4A	Mx	.018	3
31	M54	X	81.762	2.75
32	M54	Z	47.205	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	34.257	3.25
2	MP5A	Z	59.335	3.25
3	MP5A	Mx	-.017	3.25
4	MP5A	X	34.257	4.5
5	MP5A	Z	59.335	4.5
6	MP5A	Mx	-.017	4.5
7	MP4A	X	89.888	1.25
8	MP4A	Z	155.691	1.25
9	MP4A	Mx	.046	1.25
10	MP4A	X	89.888	6.5
11	MP4A	Z	155.691	6.5
12	MP4A	Mx	.046	6.5
13	MP4A	X	89.888	1.25
14	MP4A	Z	155.691	1.25
15	MP4A	Mx	-.136	1.25
16	MP4A	X	89.888	6.5
17	MP4A	Z	155.691	6.5
18	MP4A	Mx	-.136	6.5
19	MP1A	X	90.492	1.25
20	MP1A	Z	156.737	1.25
21	MP1A	Mx	-.045	1.25
22	MP1A	X	90.492	6.5
23	MP1A	Z	156.737	6.5
24	MP1A	Mx	-.045	6.5
25	MP2A	X	29.428	3
26	MP2A	Z	50.97	3
27	MP2A	Mx	-.015	3
28	MP4A	X	28.409	3
29	MP4A	Z	49.206	3
30	MP4A	Mx	.014	3
31	M54	X	51.649	2.75
32	M54	Z	89.458	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25
2	MP5A	Z	80.807	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	80.807	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	195.828	1.25
9	MP4A	Mx	.114	1.25



Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP4A	X	0	6.5
11	MP4A	Z	195.828	6.5
12	MP4A	Mx	.114	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	195.828	1.25
15	MP4A	Mx	-.114	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	195.828	6.5
18	MP4A	Mx	-.114	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	197.204	1.25
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	197.204	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	64.175	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3
29	MP4A	Z	64.175	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	94.41	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-34.257	3.25
2	MP5A	Z	59.335	3.25
3	MP5A	Mx	.017	3.25
4	MP5A	X	-34.257	4.5
5	MP5A	Z	59.335	4.5
6	MP5A	Mx	.017	4.5
7	MP4A	X	-89.888	1.25
8	MP4A	Z	155.691	1.25
9	MP4A	Mx	.136	1.25
10	MP4A	X	-89.888	6.5
11	MP4A	Z	155.691	6.5
12	MP4A	Mx	.136	6.5
13	MP4A	X	-89.888	1.25
14	MP4A	Z	155.691	1.25
15	MP4A	Mx	-.046	1.25
16	MP4A	X	-89.888	6.5
17	MP4A	Z	155.691	6.5
18	MP4A	Mx	-.046	6.5
19	MP1A	X	-90.492	1.25
20	MP1A	Z	156.737	1.25
21	MP1A	Mx	.045	1.25
22	MP1A	X	-90.492	6.5
23	MP1A	Z	156.737	6.5
24	MP1A	Mx	.045	6.5
25	MP2A	X	-29.428	3
26	MP2A	Z	50.97	3
27	MP2A	Mx	.015	3
28	MP4A	X	-28.409	3
29	MP4A	Z	49.206	3



Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
30	MP4A	Mx	-.014	3
31	M54	X	-38.318	2.75
32	M54	Z	66.369	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-38.043	3.25
2	MP5A	Z	21.964	3.25
3	MP5A	Mx	.019	3.25
4	MP5A	X	-38.043	4.5
5	MP5A	Z	21.964	4.5
6	MP5A	Mx	.019	4.5
7	MP4A	X	-127.889	1.25
8	MP4A	Z	73.837	1.25
9	MP4A	Mx	.107	1.25
10	MP4A	X	-127.889	6.5
11	MP4A	Z	73.837	6.5
12	MP4A	Mx	.107	6.5
13	MP4A	X	-127.889	1.25
14	MP4A	Z	73.837	1.25
15	MP4A	Mx	.021	1.25
16	MP4A	X	-127.889	6.5
17	MP4A	Z	73.837	6.5
18	MP4A	Mx	.021	6.5
19	MP1A	X	-128.643	1.25
20	MP1A	Z	74.272	1.25
21	MP1A	Mx	.064	1.25
22	MP1A	X	-128.643	6.5
23	MP1A	Z	74.272	6.5
24	MP1A	Mx	.064	6.5
25	MP2A	X	-41.757	3
26	MP2A	Z	24.108	3
27	MP2A	Mx	.021	3
28	MP4A	X	-36.463	3
29	MP4A	Z	21.052	3
30	MP4A	Mx	-.018	3
31	M54	X	-58.673	2.75
32	M54	Z	33.875	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-31.636	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	.016	3.25
4	MP5A	X	-31.636	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	.016	4.5
7	MP4A	X	-131.622	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.066	1.25
10	MP4A	X	-131.622	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	.066	6.5
13	MP4A	X	-131.622	1.25



Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
14	MP4A	Z	0	1.25
15	MP4A	Mx	.066	1.25
16	MP4A	X	-131.622	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.066	6.5
19	MP1A	X	-132.324	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	.066	1.25
22	MP1A	X	-132.324	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	.066	6.5
25	MP2A	X	-42.898	3
26	MP2A	Z	0	3
27	MP2A	Mx	.021	3
28	MP4A	X	-34.747	3
29	MP4A	Z	0	3
30	MP4A	Mx	-.017	3
31	M54	X	-76.637	2.75
32	M54	Z	0	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-38.043	3.25
2	MP5A	Z	-21.964	3.25
3	MP5A	Mx	.019	3.25
4	MP5A	X	-38.043	4.5
5	MP5A	Z	-21.964	4.5
6	MP5A	Mx	.019	4.5
7	MP4A	X	-127.889	1.25
8	MP4A	Z	-73.837	1.25
9	MP4A	Mx	.021	1.25
10	MP4A	X	-127.889	6.5
11	MP4A	Z	-73.837	6.5
12	MP4A	Mx	.021	6.5
13	MP4A	X	-127.889	1.25
14	MP4A	Z	-73.837	1.25
15	MP4A	Mx	.107	1.25
16	MP4A	X	-127.889	6.5
17	MP4A	Z	-73.837	6.5
18	MP4A	Mx	.107	6.5
19	MP1A	X	-128.643	1.25
20	MP1A	Z	-74.272	1.25
21	MP1A	Mx	.064	1.25
22	MP1A	X	-128.643	6.5
23	MP1A	Z	-74.272	6.5
24	MP1A	Mx	.064	6.5
25	MP2A	X	-41.757	3
26	MP2A	Z	-24.108	3
27	MP2A	Mx	.021	3
28	MP4A	X	-36.463	3
29	MP4A	Z	-21.052	3
30	MP4A	Mx	-.018	3
31	M54	X	-81.762	2.75
32	M54	Z	-47.205	2.75
33	M54	Mx	0	2.75



Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-34.257	3.25
2	MP5A	Z	-59.335	3.25
3	MP5A	Mx	.017	3.25
4	MP5A	X	-34.257	4.5
5	MP5A	Z	-59.335	4.5
6	MP5A	Mx	.017	4.5
7	MP4A	X	-89.888	1.25
8	MP4A	Z	-155.691	1.25
9	MP4A	Mx	-.046	1.25
10	MP4A	X	-89.888	6.5
11	MP4A	Z	-155.691	6.5
12	MP4A	Mx	-.046	6.5
13	MP4A	X	-89.888	1.25
14	MP4A	Z	-155.691	1.25
15	MP4A	Mx	.136	1.25
16	MP4A	X	-89.888	6.5
17	MP4A	Z	-155.691	6.5
18	MP4A	Mx	.136	6.5
19	MP1A	X	-90.492	1.25
20	MP1A	Z	-156.737	1.25
21	MP1A	Mx	.045	1.25
22	MP1A	X	-90.492	6.5
23	MP1A	Z	-156.737	6.5
24	MP1A	Mx	.045	6.5
25	MP2A	X	-29.428	3
26	MP2A	Z	-50.97	3
27	MP2A	Mx	.015	3
28	MP4A	X	-28.409	3
29	MP4A	Z	-49.206	3
30	MP4A	Mx	-.014	3
31	M54	X	-51.649	2.75
32	M54	Z	-89.458	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25
2	MP5A	Z	-15.596	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	-15.596	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	-36.677	1.25
9	MP4A	Mx	-.021	1.25
10	MP4A	X	0	6.5
11	MP4A	Z	-36.677	6.5
12	MP4A	Mx	-.021	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	-36.677	1.25
15	MP4A	Mx	.021	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	-36.677	6.5
18	MP4A	Mx	.021	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	-36.86	1.25



Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	-36.86	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	-13.121	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3
29	MP4A	Z	-13.121	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	-18.736	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	6.679	3.25
2	MP5A	Z	-11.569	3.25
3	MP5A	Mx	-.003	3.25
4	MP5A	X	6.679	4.5
5	MP5A	Z	-11.569	4.5
6	MP5A	Mx	-.003	4.5
7	MP4A	X	16.931	1.25
8	MP4A	Z	-29.325	1.25
9	MP4A	Mx	-.026	1.25
10	MP4A	X	16.931	6.5
11	MP4A	Z	-29.325	6.5
12	MP4A	Mx	-.026	6.5
13	MP4A	X	16.931	1.25
14	MP4A	Z	-29.325	1.25
15	MP4A	Mx	.009	1.25
16	MP4A	X	16.931	6.5
17	MP4A	Z	-29.325	6.5
18	MP4A	Mx	.009	6.5
19	MP1A	X	17.016	1.25
20	MP1A	Z	-29.472	1.25
21	MP1A	Mx	-.009	1.25
22	MP1A	X	17.016	6.5
23	MP1A	Z	-29.472	6.5
24	MP1A	Mx	-.009	6.5
25	MP2A	X	6.061	3
26	MP2A	Z	-10.499	3
27	MP2A	Mx	-.003	3
28	MP4A	X	5.872	3
29	MP4A	Z	-10.17	3
30	MP4A	Mx	.003	3
31	M54	X	7.763	2.75
32	M54	Z	-13.445	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	7.694	3.25
2	MP5A	Z	-4.442	3.25
3	MP5A	Mx	-.004	3.25
4	MP5A	X	7.694	4.5



Member Point Loads (BLC 17 : Antenna Wi (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
5	MP5A	Z	-4.442	4.5
6	MP5A	Mx	-0.04	4.5
7	MP4A	X	24.448	1.25
8	MP4A	Z	-14.115	1.25
9	MP4A	Mx	-0.02	1.25
10	MP4A	X	24.448	6.5
11	MP4A	Z	-14.115	6.5
12	MP4A	Mx	-0.02	6.5
13	MP4A	X	24.448	1.25
14	MP4A	Z	-14.115	1.25
15	MP4A	Mx	-0.04	1.25
16	MP4A	X	24.448	6.5
17	MP4A	Z	-14.115	6.5
18	MP4A	Mx	-0.04	6.5
19	MP1A	X	24.572	1.25
20	MP1A	Z	-14.186	1.25
21	MP1A	Mx	-0.12	1.25
22	MP1A	X	24.572	6.5
23	MP1A	Z	-14.186	6.5
24	MP1A	Mx	-0.12	6.5
25	MP2A	X	8.77	3
26	MP2A	Z	-5.063	3
27	MP2A	Mx	-0.04	3
28	MP4A	X	7.784	3
29	MP4A	Z	-4.494	3
30	MP4A	Mx	.004	3
31	M54	X	12.055	2.75
32	M54	Z	-6.96	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	6.646	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	-0.03	3.25
4	MP5A	X	6.646	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	-0.03	4.5
7	MP4A	X	25.415	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	-0.13	1.25
10	MP4A	X	25.415	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	-0.13	6.5
13	MP4A	X	25.415	1.25
14	MP4A	Z	0	1.25
15	MP4A	Mx	-0.13	1.25
16	MP4A	X	25.415	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-0.13	6.5
19	MP1A	X	25.544	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	-0.13	1.25
22	MP1A	X	25.544	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	-0.13	6.5



Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	9.128	3
26	MP2A	Z	0	3
27	MP2A	Mx	-.005	3
28	MP4A	X	7.611	3
29	MP4A	Z	0	3
30	MP4A	Mx	.004	3
31	M54	X	15.525	2.75
32	M54	Z	0	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	7.694	3.25
2	MP5A	Z	4.442	3.25
3	MP5A	Mx	-.004	3.25
4	MP5A	X	7.694	4.5
5	MP5A	Z	4.442	4.5
6	MP5A	Mx	-.004	4.5
7	MP4A	X	24.448	1.25
8	MP4A	Z	14.115	1.25
9	MP4A	Mx	-.004	1.25
10	MP4A	X	24.448	6.5
11	MP4A	Z	14.115	6.5
12	MP4A	Mx	-.004	6.5
13	MP4A	X	24.448	1.25
14	MP4A	Z	14.115	1.25
15	MP4A	Mx	-.02	1.25
16	MP4A	X	24.448	6.5
17	MP4A	Z	14.115	6.5
18	MP4A	Mx	-.02	6.5
19	MP1A	X	24.572	1.25
20	MP1A	Z	14.186	1.25
21	MP1A	Mx	-.012	1.25
22	MP1A	X	24.572	6.5
23	MP1A	Z	14.186	6.5
24	MP1A	Mx	-.012	6.5
25	MP2A	X	8.77	3
26	MP2A	Z	5.063	3
27	MP2A	Mx	-.004	3
28	MP4A	X	7.784	3
29	MP4A	Z	4.494	3
30	MP4A	Mx	.004	3
31	M54	X	16.226	2.75
32	M54	Z	9.368	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	6.679	3.25
2	MP5A	Z	11.569	3.25
3	MP5A	Mx	-.003	3.25
4	MP5A	X	6.679	4.5
5	MP5A	Z	11.569	4.5
6	MP5A	Mx	-.003	4.5
7	MP4A	X	16.931	1.25
8	MP4A	Z	29.325	1.25



Member Point Loads (BLC 20 : Antenna Wi (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4A	Mx	.009	1.25
10	MP4A	X	16.931	6.5
11	MP4A	Z	29.325	6.5
12	MP4A	Mx	.009	6.5
13	MP4A	X	16.931	1.25
14	MP4A	Z	29.325	1.25
15	MP4A	Mx	-.026	1.25
16	MP4A	X	16.931	6.5
17	MP4A	Z	29.325	6.5
18	MP4A	Mx	-.026	6.5
19	MP1A	X	17.016	1.25
20	MP1A	Z	29.472	1.25
21	MP1A	Mx	-.009	1.25
22	MP1A	X	17.016	6.5
23	MP1A	Z	29.472	6.5
24	MP1A	Mx	-.009	6.5
25	MP2A	X	6.061	3
26	MP2A	Z	10.499	3
27	MP2A	Mx	-.003	3
28	MP4A	X	5.872	3
29	MP4A	Z	10.17	3
30	MP4A	Mx	.003	3
31	M54	X	10.171	2.75
32	M54	Z	17.616	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25
2	MP5A	Z	15.596	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	15.596	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	36.677	1.25
9	MP4A	Mx	.021	1.25
10	MP4A	X	0	6.5
11	MP4A	Z	36.677	6.5
12	MP4A	Mx	.021	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	36.677	1.25
15	MP4A	Mx	-.021	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	36.677	6.5
18	MP4A	Mx	-.021	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	36.86	1.25
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	36.86	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	13.121	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3



Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4A	Z	13.121	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	18.736	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-6.679	3.25
2	MP5A	Z	11.569	3.25
3	MP5A	Mx	.003	3.25
4	MP5A	X	-6.679	4.5
5	MP5A	Z	11.569	4.5
6	MP5A	Mx	.003	4.5
7	MP4A	X	-16.931	1.25
8	MP4A	Z	29.325	1.25
9	MP4A	Mx	.026	1.25
10	MP4A	X	-16.931	6.5
11	MP4A	Z	29.325	6.5
12	MP4A	Mx	.026	6.5
13	MP4A	X	-16.931	1.25
14	MP4A	Z	29.325	1.25
15	MP4A	Mx	-.009	1.25
16	MP4A	X	-16.931	6.5
17	MP4A	Z	29.325	6.5
18	MP4A	Mx	-.009	6.5
19	MP1A	X	-17.016	1.25
20	MP1A	Z	29.472	1.25
21	MP1A	Mx	.009	1.25
22	MP1A	X	-17.016	6.5
23	MP1A	Z	29.472	6.5
24	MP1A	Mx	.009	6.5
25	MP2A	X	-6.061	3
26	MP2A	Z	10.499	3
27	MP2A	Mx	.003	3
28	MP4A	X	-5.872	3
29	MP4A	Z	10.17	3
30	MP4A	Mx	-.003	3
31	M54	X	-7.763	2.75
32	M54	Z	13.445	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-7.694	3.25
2	MP5A	Z	4.442	3.25
3	MP5A	Mx	.004	3.25
4	MP5A	X	-7.694	4.5
5	MP5A	Z	4.442	4.5
6	MP5A	Mx	.004	4.5
7	MP4A	X	-24.448	1.25
8	MP4A	Z	14.115	1.25
9	MP4A	Mx	.02	1.25
10	MP4A	X	-24.448	6.5
11	MP4A	Z	14.115	6.5
12	MP4A	Mx	.02	6.5



Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-24.448	1.25
14	MP4A	Z	14.115	1.25
15	MP4A	Mx	.004	1.25
16	MP4A	X	-24.448	6.5
17	MP4A	Z	14.115	6.5
18	MP4A	Mx	.004	6.5
19	MP1A	X	-24.572	1.25
20	MP1A	Z	14.186	1.25
21	MP1A	Mx	.012	1.25
22	MP1A	X	-24.572	6.5
23	MP1A	Z	14.186	6.5
24	MP1A	Mx	.012	6.5
25	MP2A	X	-8.77	3
26	MP2A	Z	5.063	3
27	MP2A	Mx	.004	3
28	MP4A	X	-7.784	3
29	MP4A	Z	4.494	3
30	MP4A	Mx	-.004	3
31	M54	X	-12.055	2.75
32	M54	Z	6.96	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-6.646	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	.003	3.25
4	MP5A	X	-6.646	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	.003	4.5
7	MP4A	X	-25.415	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.013	1.25
10	MP4A	X	-25.415	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	.013	6.5
13	MP4A	X	-25.415	1.25
14	MP4A	Z	0	1.25
15	MP4A	Mx	.013	1.25
16	MP4A	X	-25.415	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.013	6.5
19	MP1A	X	-25.544	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	.013	1.25
22	MP1A	X	-25.544	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	.013	6.5
25	MP2A	X	-9.128	3
26	MP2A	Z	0	3
27	MP2A	Mx	.005	3
28	MP4A	X	-7.611	3
29	MP4A	Z	0	3
30	MP4A	Mx	-.004	3
31	M54	X	-15.525	2.75
32	M54	Z	0	2.75



Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	M54	Mx	0	2.75

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-7.694	3.25
2	MP5A	Z	-4.442	3.25
3	MP5A	Mx	.004	3.25
4	MP5A	X	-7.694	4.5
5	MP5A	Z	-4.442	4.5
6	MP5A	Mx	.004	4.5
7	MP4A	X	-24.448	1.25
8	MP4A	Z	-14.115	1.25
9	MP4A	Mx	.004	1.25
10	MP4A	X	-24.448	6.5
11	MP4A	Z	-14.115	6.5
12	MP4A	Mx	.004	6.5
13	MP4A	X	-24.448	1.25
14	MP4A	Z	-14.115	1.25
15	MP4A	Mx	.02	1.25
16	MP4A	X	-24.448	6.5
17	MP4A	Z	-14.115	6.5
18	MP4A	Mx	.02	6.5
19	MP1A	X	-24.572	1.25
20	MP1A	Z	-14.186	1.25
21	MP1A	Mx	.012	1.25
22	MP1A	X	-24.572	6.5
23	MP1A	Z	-14.186	6.5
24	MP1A	Mx	.012	6.5
25	MP2A	X	-8.77	3
26	MP2A	Z	-5.063	3
27	MP2A	Mx	.004	3
28	MP4A	X	-7.784	3
29	MP4A	Z	-4.494	3
30	MP4A	Mx	-.004	3
31	M54	X	-16.226	2.75
32	M54	Z	-9.368	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-6.679	3.25
2	MP5A	Z	-11.569	3.25
3	MP5A	Mx	.003	3.25
4	MP5A	X	-6.679	4.5
5	MP5A	Z	-11.569	4.5
6	MP5A	Mx	.003	4.5
7	MP4A	X	-16.931	1.25
8	MP4A	Z	-29.325	1.25
9	MP4A	Mx	-.009	1.25
10	MP4A	X	-16.931	6.5
11	MP4A	Z	-29.325	6.5
12	MP4A	Mx	-.009	6.5
13	MP4A	X	-16.931	1.25
14	MP4A	Z	-29.325	1.25
15	MP4A	Mx	.026	1.25
16	MP4A	X	-16.931	6.5



Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP4A	Z	-29.325	6.5
18	MP4A	Mx	.026	6.5
19	MP1A	X	-17.016	1.25
20	MP1A	Z	-29.472	1.25
21	MP1A	Mx	.009	1.25
22	MP1A	X	-17.016	6.5
23	MP1A	Z	-29.472	6.5
24	MP1A	Mx	.009	6.5
25	MP2A	X	-6.061	3
26	MP2A	Z	-10.499	3
27	MP2A	Mx	.003	3
28	MP4A	X	-5.872	3
29	MP4A	Z	-10.17	3
30	MP4A	Mx	-.003	3
31	M54	X	-10.171	2.75
32	M54	Z	-17.616	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25
2	MP5A	Z	-4.967	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	-4.967	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	-12.038	1.25
9	MP4A	Mx	-.007	1.25
10	MP4A	X	0	6.5
11	MP4A	Z	-12.038	6.5
12	MP4A	Mx	-.007	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	-12.038	1.25
15	MP4A	Mx	.007	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	-12.038	6.5
18	MP4A	Mx	.007	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	-12.122	1.25
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	-12.122	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	-3.945	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3
29	MP4A	Z	-3.945	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	-5.804	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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Member Point Loads (BLC 28 : Antenna Wm (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	2.106	3.25
2	MP5A	Z	-3.647	3.25
3	MP5A	Mx	-.001	3.25
4	MP5A	X	2.106	4.5
5	MP5A	Z	-3.647	4.5
6	MP5A	Mx	-.001	4.5
7	MP4A	X	5.526	1.25
8	MP4A	Z	-9.571	1.25
9	MP4A	Mx	-.008	1.25
10	MP4A	X	5.526	6.5
11	MP4A	Z	-9.571	6.5
12	MP4A	Mx	-.008	6.5
13	MP4A	X	5.526	1.25
14	MP4A	Z	-9.571	1.25
15	MP4A	Mx	.003	1.25
16	MP4A	X	5.526	6.5
17	MP4A	Z	-9.571	6.5
18	MP4A	Mx	.003	6.5
19	MP1A	X	5.563	1.25
20	MP1A	Z	-9.635	1.25
21	MP1A	Mx	-.003	1.25
22	MP1A	X	5.563	6.5
23	MP1A	Z	-9.635	6.5
24	MP1A	Mx	-.003	6.5
25	MP2A	X	1.809	3
26	MP2A	Z	-3.133	3
27	MP2A	Mx	-.000904	3
28	MP4A	X	1.746	3
29	MP4A	Z	-3.025	3
30	MP4A	Mx	.000873	3
31	M54	X	2.355	2.75
32	M54	Z	-4.08	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	2.339	3.25
2	MP5A	Z	-1.35	3.25
3	MP5A	Mx	-.001	3.25
4	MP5A	X	2.339	4.5
5	MP5A	Z	-1.35	4.5
6	MP5A	Mx	-.001	4.5
7	MP4A	X	7.861	1.25
8	MP4A	Z	-4.539	1.25
9	MP4A	Mx	-.007	1.25
10	MP4A	X	7.861	6.5
11	MP4A	Z	-4.539	6.5
12	MP4A	Mx	-.007	6.5
13	MP4A	X	7.861	1.25
14	MP4A	Z	-4.539	1.25
15	MP4A	Mx	-.001	1.25
16	MP4A	X	7.861	6.5
17	MP4A	Z	-4.539	6.5
18	MP4A	Mx	-.001	6.5
19	MP1A	X	7.908	1.25
20	MP1A	Z	-4.566	1.25



Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP1A	Mx	-0.004	1.25
22	MP1A	X	7.908	6.5
23	MP1A	Z	-4.566	6.5
24	MP1A	Mx	-0.004	6.5
25	MP2A	X	2.567	3
26	MP2A	Z	-1.482	3
27	MP2A	Mx	-0.001	3
28	MP4A	X	2.241	3
29	MP4A	Z	-1.294	3
30	MP4A	Mx	.001	3
31	M54	X	3.607	2.75
32	M54	Z	-2.082	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	1.945	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	-0.000972	3.25
4	MP5A	X	1.945	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	-0.000972	4.5
7	MP4A	X	8.091	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	-0.004	1.25
10	MP4A	X	8.091	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	-0.004	6.5
13	MP4A	X	8.091	1.25
14	MP4A	Z	0	1.25
15	MP4A	Mx	-0.004	1.25
16	MP4A	X	8.091	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	-0.004	6.5
19	MP1A	X	8.134	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	-0.004	1.25
22	MP1A	X	8.134	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	-0.004	6.5
25	MP2A	X	2.637	3
26	MP2A	Z	0	3
27	MP2A	Mx	-0.001	3
28	MP4A	X	2.136	3
29	MP4A	Z	0	3
30	MP4A	Mx	.001	3
31	M54	X	4.711	2.75
32	M54	Z	0	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	2.339	3.25
2	MP5A	Z	1.35	3.25
3	MP5A	Mx	-0.001	3.25
4	MP5A	X	2.339	4.5



Member Point Loads (BLC 31 : Antenna Wm (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
5	MP5A	Z	1.35	4.5
6	MP5A	Mx	-.001	4.5
7	MP4A	X	7.861	1.25
8	MP4A	Z	4.539	1.25
9	MP4A	Mx	-.001	1.25
10	MP4A	X	7.861	6.5
11	MP4A	Z	4.539	6.5
12	MP4A	Mx	-.001	6.5
13	MP4A	X	7.861	1.25
14	MP4A	Z	4.539	1.25
15	MP4A	Mx	-.007	1.25
16	MP4A	X	7.861	6.5
17	MP4A	Z	4.539	6.5
18	MP4A	Mx	-.007	6.5
19	MP1A	X	7.908	1.25
20	MP1A	Z	4.566	1.25
21	MP1A	Mx	-.004	1.25
22	MP1A	X	7.908	6.5
23	MP1A	Z	4.566	6.5
24	MP1A	Mx	-.004	6.5
25	MP2A	X	2.567	3
26	MP2A	Z	1.482	3
27	MP2A	Mx	-.001	3
28	MP4A	X	2.241	3
29	MP4A	Z	1.294	3
30	MP4A	Mx	.001	3
31	M54	X	5.026	2.75
32	M54	Z	2.902	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP5A	X	2.106	3.25
2	MP5A	Z	3.647	3.25
3	MP5A	Mx	-.001	3.25
4	MP5A	X	2.106	4.5
5	MP5A	Z	3.647	4.5
6	MP5A	Mx	-.001	4.5
7	MP4A	X	5.526	1.25
8	MP4A	Z	9.571	1.25
9	MP4A	Mx	.003	1.25
10	MP4A	X	5.526	6.5
11	MP4A	Z	9.571	6.5
12	MP4A	Mx	.003	6.5
13	MP4A	X	5.526	1.25
14	MP4A	Z	9.571	1.25
15	MP4A	Mx	-.008	1.25
16	MP4A	X	5.526	6.5
17	MP4A	Z	9.571	6.5
18	MP4A	Mx	-.008	6.5
19	MP1A	X	5.563	1.25
20	MP1A	Z	9.635	1.25
21	MP1A	Mx	-.003	1.25
22	MP1A	X	5.563	6.5
23	MP1A	Z	9.635	6.5
24	MP1A	Mx	-.003	6.5



Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2A	X	1.809	3
26	MP2A	Z	3.133	3
27	MP2A	Mx	-.000904	3
28	MP4A	X	1.746	3
29	MP4A	Z	3.025	3
30	MP4A	Mx	.000873	3
31	M54	X	3.175	2.75
32	M54	Z	5.499	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	0	3.25
2	MP5A	Z	4.967	3.25
3	MP5A	Mx	0	3.25
4	MP5A	X	0	4.5
5	MP5A	Z	4.967	4.5
6	MP5A	Mx	0	4.5
7	MP4A	X	0	1.25
8	MP4A	Z	12.038	1.25
9	MP4A	Mx	.007	1.25
10	MP4A	X	0	6.5
11	MP4A	Z	12.038	6.5
12	MP4A	Mx	.007	6.5
13	MP4A	X	0	1.25
14	MP4A	Z	12.038	1.25
15	MP4A	Mx	-.007	1.25
16	MP4A	X	0	6.5
17	MP4A	Z	12.038	6.5
18	MP4A	Mx	-.007	6.5
19	MP1A	X	0	1.25
20	MP1A	Z	12.122	1.25
21	MP1A	Mx	0	1.25
22	MP1A	X	0	6.5
23	MP1A	Z	12.122	6.5
24	MP1A	Mx	0	6.5
25	MP2A	X	0	3
26	MP2A	Z	3.945	3
27	MP2A	Mx	0	3
28	MP4A	X	0	3
29	MP4A	Z	3.945	3
30	MP4A	Mx	0	3
31	M54	X	0	2.75
32	M54	Z	5.804	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-2.106	3.25
2	MP5A	Z	3.647	3.25
3	MP5A	Mx	.001	3.25
4	MP5A	X	-2.106	4.5
5	MP5A	Z	3.647	4.5
6	MP5A	Mx	.001	4.5
7	MP4A	X	-5.526	1.25
8	MP4A	Z	9.571	1.25



Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP4A	Mx	.008	1.25
10	MP4A	X	-5.526	6.5
11	MP4A	Z	9.571	6.5
12	MP4A	Mx	.008	6.5
13	MP4A	X	-5.526	1.25
14	MP4A	Z	9.571	1.25
15	MP4A	Mx	-.003	1.25
16	MP4A	X	-5.526	6.5
17	MP4A	Z	9.571	6.5
18	MP4A	Mx	-.003	6.5
19	MP1A	X	-5.563	1.25
20	MP1A	Z	9.635	1.25
21	MP1A	Mx	.003	1.25
22	MP1A	X	-5.563	6.5
23	MP1A	Z	9.635	6.5
24	MP1A	Mx	.003	6.5
25	MP2A	X	-1.809	3
26	MP2A	Z	3.133	3
27	MP2A	Mx	.000904	3
28	MP4A	X	-1.746	3
29	MP4A	Z	3.025	3
30	MP4A	Mx	-.000873	3
31	M54	X	-2.355	2.75
32	M54	Z	4.08	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-2.339	3.25
2	MP5A	Z	1.35	3.25
3	MP5A	Mx	.001	3.25
4	MP5A	X	-2.339	4.5
5	MP5A	Z	1.35	4.5
6	MP5A	Mx	.001	4.5
7	MP4A	X	-7.861	1.25
8	MP4A	Z	4.539	1.25
9	MP4A	Mx	.007	1.25
10	MP4A	X	-7.861	6.5
11	MP4A	Z	4.539	6.5
12	MP4A	Mx	.007	6.5
13	MP4A	X	-7.861	1.25
14	MP4A	Z	4.539	1.25
15	MP4A	Mx	.001	1.25
16	MP4A	X	-7.861	6.5
17	MP4A	Z	4.539	6.5
18	MP4A	Mx	.001	6.5
19	MP1A	X	-7.908	1.25
20	MP1A	Z	4.566	1.25
21	MP1A	Mx	.004	1.25
22	MP1A	X	-7.908	6.5
23	MP1A	Z	4.566	6.5
24	MP1A	Mx	.004	6.5
25	MP2A	X	-2.567	3
26	MP2A	Z	1.482	3
27	MP2A	Mx	.001	3
28	MP4A	X	-2.241	3



Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP4A	Z	1.294	3
30	MP4A	Mx	-.001	3
31	M54	X	-3.607	2.75
32	M54	Z	2.082	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-1.945	3.25
2	MP5A	Z	0	3.25
3	MP5A	Mx	.000972	3.25
4	MP5A	X	-1.945	4.5
5	MP5A	Z	0	4.5
6	MP5A	Mx	.000972	4.5
7	MP4A	X	-8.091	1.25
8	MP4A	Z	0	1.25
9	MP4A	Mx	.004	1.25
10	MP4A	X	-8.091	6.5
11	MP4A	Z	0	6.5
12	MP4A	Mx	.004	6.5
13	MP4A	X	-8.091	1.25
14	MP4A	Z	0	1.25
15	MP4A	Mx	.004	1.25
16	MP4A	X	-8.091	6.5
17	MP4A	Z	0	6.5
18	MP4A	Mx	.004	6.5
19	MP1A	X	-8.134	1.25
20	MP1A	Z	0	1.25
21	MP1A	Mx	.004	1.25
22	MP1A	X	-8.134	6.5
23	MP1A	Z	0	6.5
24	MP1A	Mx	.004	6.5
25	MP2A	X	-2.637	3
26	MP2A	Z	0	3
27	MP2A	Mx	.001	3
28	MP4A	X	-2.136	3
29	MP4A	Z	0	3
30	MP4A	Mx	-.001	3
31	M54	X	-4.711	2.75
32	M54	Z	0	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-2.339	3.25
2	MP5A	Z	-1.35	3.25
3	MP5A	Mx	.001	3.25
4	MP5A	X	-2.339	4.5
5	MP5A	Z	-1.35	4.5
6	MP5A	Mx	.001	4.5
7	MP4A	X	-7.861	1.25
8	MP4A	Z	-4.539	1.25
9	MP4A	Mx	.001	1.25
10	MP4A	X	-7.861	6.5
11	MP4A	Z	-4.539	6.5
12	MP4A	Mx	.001	6.5



Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A	X	-7.861	1.25
14	MP4A	Z	-4.539	1.25
15	MP4A	Mx	.007	1.25
16	MP4A	X	-7.861	6.5
17	MP4A	Z	-4.539	6.5
18	MP4A	Mx	.007	6.5
19	MP1A	X	-7.908	1.25
20	MP1A	Z	-4.566	1.25
21	MP1A	Mx	.004	1.25
22	MP1A	X	-7.908	6.5
23	MP1A	Z	-4.566	6.5
24	MP1A	Mx	.004	6.5
25	MP2A	X	-2.567	3
26	MP2A	Z	-1.482	3
27	MP2A	Mx	.001	3
28	MP4A	X	-2.241	3
29	MP4A	Z	-1.294	3
30	MP4A	Mx	-.001	3
31	M54	X	-5.026	2.75
32	M54	Z	-2.902	2.75
33	M54	Mx	0	2.75

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP5A	X	-2.106	3.25
2	MP5A	Z	-3.647	3.25
3	MP5A	Mx	.001	3.25
4	MP5A	X	-2.106	4.5
5	MP5A	Z	-3.647	4.5
6	MP5A	Mx	.001	4.5
7	MP4A	X	-5.526	1.25
8	MP4A	Z	-9.571	1.25
9	MP4A	Mx	-.003	1.25
10	MP4A	X	-5.526	6.5
11	MP4A	Z	-9.571	6.5
12	MP4A	Mx	-.003	6.5
13	MP4A	X	-5.526	1.25
14	MP4A	Z	-9.571	1.25
15	MP4A	Mx	.008	1.25
16	MP4A	X	-5.526	6.5
17	MP4A	Z	-9.571	6.5
18	MP4A	Mx	.008	6.5
19	MP1A	X	-5.563	1.25
20	MP1A	Z	-9.635	1.25
21	MP1A	Mx	.003	1.25
22	MP1A	X	-5.563	6.5
23	MP1A	Z	-9.635	6.5
24	MP1A	Mx	.003	6.5
25	MP2A	X	-1.809	3
26	MP2A	Z	-3.133	3
27	MP2A	Mx	.000904	3
28	MP4A	X	-1.746	3
29	MP4A	Z	-3.025	3
30	MP4A	Mx	-.000873	3
31	M54	X	-3.175	2.75
32	M54	Z	-5.499	2.75



Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	M54	Mx	0	2.75

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M55	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M58	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%100

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-5.003	-5.003	0	%100
2	M2	Y	-5.003	-5.003	0	%100
3	MP1A	Y	-5.003	-5.003	0	%100
4	M17	Y	-6.996	-6.996	0	%100
5	M18	Y	-6.996	-6.996	0	%100
6	M21A	Y	-6.996	-6.996	0	%100
7	M22A	Y	-6.996	-6.996	0	%100
8	M22	Y	-6.996	-6.996	0	%100
9	M23	Y	-6.996	-6.996	0	%100
10	M24	Y	-6.996	-6.996	0	%100
11	M25	Y	-6.996	-6.996	0	%100
12	M26	Y	-3.99	-3.99	0	%100
13	M27	Y	-3.99	-3.99	0	%100
14	M28	Y	-3.99	-3.99	0	%100
15	M29	Y	-3.99	-3.99	0	%100
16	M37	Y	-6.996	-6.996	0	%100
17	M38	Y	-6.996	-6.996	0	%100
18	M39	Y	-6.996	-6.996	0	%100
19	M40	Y	-6.996	-6.996	0	%100
20	M42	Y	-6.996	-6.996	0	%100
21	M43	Y	-6.996	-6.996	0	%100
22	M44	Y	-6.996	-6.996	0	%100
23	M45	Y	-6.996	-6.996	0	%100
24	M46	Y	-3.99	-3.99	0	%100
25	M47	Y	-3.99	-3.99	0	%100
26	M48	Y	-3.99	-3.99	0	%100
27	M49	Y	-3.99	-3.99	0	%100
28	M45A	Y	-2.525	-2.525	0	%100
29	M46A	Y	-2.525	-2.525	0	%100
30	M47A	Y	-2.525	-2.525	0	%100
31	M48A	Y	-2.525	-2.525	0	%100
32	M49A	Y	-2.525	-2.525	0	%100
33	M50	Y	-2.525	-2.525	0	%100



Member Distributed Loads (BLC 40 : Structure Di) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
34	M51	Y	-2.525	-2.525	0	%100
35	M52	Y	-2.525	-2.525	0	%100
36	M53	Y	-6.595	-6.595	0	%100
37	M54	Y	-6.595	-6.595	0	%100
38	M46B	Y	-6.646	-6.646	0	%100
39	M47B	Y	-6.646	-6.646	0	%100
40	MP2A	Y	-5.003	-5.003	0	%100
41	MP3A	Y	-5.003	-5.003	0	%100
42	MP4A	Y	-5.003	-5.003	0	%100
43	MP5A	Y	-5.003	-5.003	0	%100
44	M62	Y	-5.003	-5.003	0	%100
45	M63	Y	-5.003	-5.003	0	%100
46	M64	Y	-6.646	-6.646	0	%100
47	M65	Y	-6.646	-6.646	0	%100
48	M66	Y	-6.646	-6.646	0	%100
49	M67	Y	-6.646	-6.646	0	%100
50	M68	Y	-5.71	-5.71	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-8.151	-8.151	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.151	-8.151	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-8.151	-8.151	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	0	0	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	-1.716	-1.716	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	-1.716	-1.716	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-0.921	-0.921	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-0.921	-0.921	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-0.921	-0.921	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	-0.921	-0.921	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	-2.091	-2.091	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-2.091	-2.091	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-2.091	-2.091	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-2.091	-2.091	0	%100
31	M37	X	0	0	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	-1.716	-1.716	0	%100



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	M40	X	0	0	0	%100
38	M40	Z	-1.716	-1.716	0	%100
39	M42	X	0	0	0	%100
40	M42	Z	-.921	-.921	0	%100
41	M43	X	0	0	0	%100
42	M43	Z	-.921	-.921	0	%100
43	M44	X	0	0	0	%100
44	M44	Z	-.921	-.921	0	%100
45	M45	X	0	0	0	%100
46	M45	Z	-.921	-.921	0	%100
47	M46	X	0	0	0	%100
48	M46	Z	-2.091	-2.091	0	%100
49	M47	X	0	0	0	%100
50	M47	Z	-2.091	-2.091	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-2.091	-2.091	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	-2.091	-2.091	0	%100
55	M45A	X	0	0	0	%100
56	M45A	Z	-2.145	-2.145	0	%100
57	M46A	X	0	0	0	%100
58	M46A	Z	-1.978	-1.978	0	%100
59	M47A	X	0	0	0	%100
60	M47A	Z	-1.978	-1.978	0	%100
61	M48A	X	0	0	0	%100
62	M48A	Z	-2.145	-2.145	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	-2.145	-2.145	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	-1.978	-1.978	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	-1.978	-1.978	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-2.145	-2.145	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-10.645	-10.645	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-10.645	-10.645	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	-7.371	-7.371	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	-5.729	-5.729	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-8.151	-8.151	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-8.151	-8.151	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	-8.151	-8.151	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	-8.151	-8.151	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	-5.365	-5.365	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	-5.699	-5.699	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	-9.258	-9.258	0	%100
93	M65	X	0	0	0	%100



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
94	M65	Z	-10.52	-10.52	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	-10.532	-10.532	0	%100
97	M67	X	0	0	0	%100
98	M67	Z	-11.254	-11.254	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	-9.866	-9.866	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.056	3.056	0	%100
2	M1	Z	-5.294	-5.294	0	%100
3	M2	X	3.056	3.056	0	%100
4	M2	Z	-5.294	-5.294	0	%100
5	MP1A	X	4.075	4.075	0	%100
6	MP1A	Z	-7.059	-7.059	0	%100
7	M17	X	.214	.214	0	%100
8	M17	Z	-.372	-.372	0	%100
9	M18	X	.214	.214	0	%100
10	M18	Z	-.372	-.372	0	%100
11	M21A	X	.643	.643	0	%100
12	M21A	Z	-1.115	-1.115	0	%100
13	M22A	X	.643	.643	0	%100
14	M22A	Z	-1.115	-1.115	0	%100
15	M22	X	.066	.066	0	%100
16	M22	Z	-.114	-.114	0	%100
17	M23	X	.843	.843	0	%100
18	M23	Z	-1.46	-1.46	0	%100
19	M24	X	.066	.066	0	%100
20	M24	Z	-.114	-.114	0	%100
21	M25	X	.843	.843	0	%100
22	M25	Z	-1.46	-1.46	0	%100
23	M26	X	.15	.15	0	%100
24	M26	Z	-.26	-.26	0	%100
25	M27	X	1.915	1.915	0	%100
26	M27	Z	-3.317	-3.317	0	%100
27	M28	X	.15	.15	0	%100
28	M28	Z	-.26	-.26	0	%100
29	M29	X	1.915	1.915	0	%100
30	M29	Z	-3.317	-3.317	0	%100
31	M37	X	.214	.214	0	%100
32	M37	Z	-.372	-.372	0	%100
33	M38	X	.214	.214	0	%100
34	M38	Z	-.372	-.372	0	%100
35	M39	X	.643	.643	0	%100
36	M39	Z	-1.115	-1.115	0	%100
37	M40	X	.643	.643	0	%100
38	M40	Z	-1.115	-1.115	0	%100
39	M42	X	.066	.066	0	%100
40	M42	Z	-.114	-.114	0	%100
41	M43	X	.843	.843	0	%100
42	M43	Z	-1.46	-1.46	0	%100
43	M44	X	.066	.066	0	%100
44	M44	Z	-.114	-.114	0	%100
45	M45	X	.843	.843	0	%100
46	M45	Z	-1.46	-1.46	0	%100



Member Distributed Loads (BLC 42 : Structure Wo (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
47	M46	X	.15	.15	0	%100
48	M46	Z	-.26	-.26	0	%100
49	M47	X	1.915	1.915	0	%100
50	M47	Z	-3.317	-3.317	0	%100
51	M48	X	.15	.15	0	%100
52	M48	Z	-.26	-.26	0	%100
53	M49	X	1.915	1.915	0	%100
54	M49	Z	-3.317	-3.317	0	%100
55	M45A	X	1.072	1.072	0	%100
56	M45A	Z	-1.858	-1.858	0	%100
57	M46A	X	.913	.913	0	%100
58	M46A	Z	-1.582	-1.582	0	%100
59	M47A	X	.913	.913	0	%100
60	M47A	Z	-1.582	-1.582	0	%100
61	M48A	X	1.072	1.072	0	%100
62	M48A	Z	-1.858	-1.858	0	%100
63	M49A	X	1.072	1.072	0	%100
64	M49A	Z	-1.858	-1.858	0	%100
65	M50	X	1.062	1.062	0	%100
66	M50	Z	-1.839	-1.839	0	%100
67	M51	X	1.062	1.062	0	%100
68	M51	Z	-1.839	-1.839	0	%100
69	M52	X	1.072	1.072	0	%100
70	M52	Z	-1.858	-1.858	0	%100
71	M53	X	5.322	5.322	0	%100
72	M53	Z	-9.219	-9.219	0	%100
73	M54	X	5.322	5.322	0	%100
74	M54	Z	-9.219	-9.219	0	%100
75	M46B	X	1.289	1.289	0	%100
76	M46B	Z	-2.233	-2.233	0	%100
77	M47B	X	5.431	5.431	0	%100
78	M47B	Z	-9.407	-9.407	0	%100
79	MP2A	X	4.075	4.075	0	%100
80	MP2A	Z	-7.059	-7.059	0	%100
81	MP3A	X	4.075	4.075	0	%100
82	MP3A	Z	-7.059	-7.059	0	%100
83	MP4A	X	4.075	4.075	0	%100
84	MP4A	Z	-7.059	-7.059	0	%100
85	MP5A	X	4.075	4.075	0	%100
86	MP5A	Z	-7.059	-7.059	0	%100
87	M62	X	.686	.686	0	%100
88	M62	Z	-1.188	-1.188	0	%100
89	M63	X	4.062	4.062	0	%100
90	M63	Z	-7.036	-7.036	0	%100
91	M64	X	1.247	1.247	0	%100
92	M64	Z	-2.159	-2.159	0	%100
93	M65	X	7.147	7.147	0	%100
94	M65	Z	-12.379	-12.379	0	%100
95	M66	X	2.012	2.012	0	%100
96	M66	Z	-3.485	-3.485	0	%100
97	M67	X	7.146	7.146	0	%100
98	M67	Z	-12.376	-12.376	0	%100
99	M68	X	3.7	3.7	0	%100
100	M68	Z	-6.408	-6.408	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

Apr 14, 2021
 2:57 PM
 Checked By: _____

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.765	1.765	0	%100
2	M1	Z	-1.019	-1.019	0	%100
3	M2	X	1.765	1.765	0	%100
4	M2	Z	-1.019	-1.019	0	%100
5	MP1A	X	7.059	7.059	0	%100
6	MP1A	Z	-4.075	-4.075	0	%100
7	M17	X	1.115	1.115	0	%100
8	M17	Z	-.643	-.643	0	%100
9	M18	X	1.115	1.115	0	%100
10	M18	Z	-.643	-.643	0	%100
11	M21A	X	.372	.372	0	%100
12	M21A	Z	-.214	-.214	0	%100
13	M22A	X	.372	.372	0	%100
14	M22A	Z	-.214	-.214	0	%100
15	M22	X	.094	.094	0	%100
16	M22	Z	-.055	-.055	0	%100
17	M23	X	1.441	1.441	0	%100
18	M23	Z	-.832	-.832	0	%100
19	M24	X	.094	.094	0	%100
20	M24	Z	-.055	-.055	0	%100
21	M25	X	1.44	1.44	0	%100
22	M25	Z	-.832	-.832	0	%100
23	M26	X	.214	.214	0	%100
24	M26	Z	-.124	-.124	0	%100
25	M27	X	3.272	3.272	0	%100
26	M27	Z	-1.889	-1.889	0	%100
27	M28	X	.214	.214	0	%100
28	M28	Z	-.124	-.124	0	%100
29	M29	X	3.272	3.272	0	%100
30	M29	Z	-1.889	-1.889	0	%100
31	M37	X	1.115	1.115	0	%100
32	M37	Z	-.643	-.643	0	%100
33	M38	X	1.115	1.115	0	%100
34	M38	Z	-.643	-.643	0	%100
35	M39	X	.372	.372	0	%100
36	M39	Z	-.214	-.214	0	%100
37	M40	X	.372	.372	0	%100
38	M40	Z	-.214	-.214	0	%100
39	M42	X	.094	.094	0	%100
40	M42	Z	-.055	-.055	0	%100
41	M43	X	1.441	1.441	0	%100
42	M43	Z	-.832	-.832	0	%100
43	M44	X	.094	.094	0	%100
44	M44	Z	-.055	-.055	0	%100
45	M45	X	1.44	1.44	0	%100
46	M45	Z	-.832	-.832	0	%100
47	M46	X	.214	.214	0	%100
48	M46	Z	-.124	-.124	0	%100
49	M47	X	3.272	3.272	0	%100
50	M47	Z	-1.889	-1.889	0	%100
51	M48	X	.214	.214	0	%100
52	M48	Z	-.124	-.124	0	%100
53	M49	X	3.272	3.272	0	%100
54	M49	Z	-1.889	-1.889	0	%100
55	M45A	X	1.858	1.858	0	%100
56	M45A	Z	-1.072	-1.072	0	%100
57	M46A	X	1.578	1.578	0	%100



Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M46A	Z	-911	-911	0	%100
59	M47A	X	1.578	1.578	0	%100
60	M47A	Z	-911	-911	0	%100
61	M48A	X	1.858	1.858	0	%100
62	M48A	Z	-1.072	-1.072	0	%100
63	M49A	X	1.858	1.858	0	%100
64	M49A	Z	-1.072	-1.072	0	%100
65	M50	X	1.836	1.836	0	%100
66	M50	Z	-1.06	-1.06	0	%100
67	M51	X	1.836	1.836	0	%100
68	M51	Z	-1.06	-1.06	0	%100
69	M52	X	1.858	1.858	0	%100
70	M52	Z	-1.072	-1.072	0	%100
71	M53	X	9.219	9.219	0	%100
72	M53	Z	-5.322	-5.322	0	%100
73	M54	X	9.219	9.219	0	%100
74	M54	Z	-5.322	-5.322	0	%100
75	M46B	X	2.406	2.406	0	%100
76	M46B	Z	-1.389	-1.389	0	%100
77	M47B	X	10.946	10.946	0	%100
78	M47B	Z	-6.32	-6.32	0	%100
79	MP2A	X	7.059	7.059	0	%100
80	MP2A	Z	-4.075	-4.075	0	%100
81	MP3A	X	7.059	7.059	0	%100
82	MP3A	Z	-4.075	-4.075	0	%100
83	MP4A	X	7.059	7.059	0	%100
84	MP4A	Z	-4.075	-4.075	0	%100
85	MP5A	X	7.059	7.059	0	%100
86	MP5A	Z	-4.075	-4.075	0	%100
87	M62	X	.071	.071	0	%100
88	M62	Z	-.041	-.041	0	%100
89	M63	X	5.629	5.629	0	%100
90	M63	Z	-3.25	-3.25	0	%100
91	M64	X	.241	.241	0	%100
92	M64	Z	-.139	-.139	0	%100
93	M65	X	9.511	9.511	0	%100
94	M65	Z	-5.491	-5.491	0	%100
95	M66	X	1.091	1.091	0	%100
96	M66	Z	-.63	-.63	0	%100
97	M67	X	9.254	9.254	0	%100
98	M67	Z	-5.343	-5.343	0	%100
99	M68	X	2.136	2.136	0	%100
100	M68	Z	-1.233	-1.233	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	8.151	8.151	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	1.716	1.716	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	1.716	1.716	0	%100
10	M18	Z	0	0	0	%100



Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	0	0	0	%100
15	M22	X	.875	.875	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.875	.875	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	.875	.875	0	%100
20	M24	Z	0	0	0	%100
21	M25	X	.875	.875	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	1.987	1.987	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	1.987	1.987	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	1.987	1.987	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	1.987	1.987	0	%100
30	M29	Z	0	0	0	%100
31	M37	X	1.716	1.716	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	1.716	1.716	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	0	0	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M42	X	.875	.875	0	%100
40	M42	Z	0	0	0	%100
41	M43	X	.875	.875	0	%100
42	M43	Z	0	0	0	%100
43	M44	X	.875	.875	0	%100
44	M44	Z	0	0	0	%100
45	M45	X	.875	.875	0	%100
46	M45	Z	0	0	0	%100
47	M46	X	1.987	1.987	0	%100
48	M46	Z	0	0	0	%100
49	M47	X	1.987	1.987	0	%100
50	M47	Z	0	0	0	%100
51	M48	X	1.987	1.987	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	1.987	1.987	0	%100
54	M49	Z	0	0	0	%100
55	M45A	X	2.145	2.145	0	%100
56	M45A	Z	0	0	0	%100
57	M46A	X	1.969	1.969	0	%100
58	M46A	Z	0	0	0	%100
59	M47A	X	1.969	1.969	0	%100
60	M47A	Z	0	0	0	%100
61	M48A	X	2.145	2.145	0	%100
62	M48A	Z	0	0	0	%100
63	M49A	X	2.145	2.145	0	%100
64	M49A	Z	0	0	0	%100
65	M50	X	1.969	1.969	0	%100
66	M50	Z	0	0	0	%100
67	M51	X	1.969	1.969	0	%100



Member Distributed Loads (BLC 44 : Structure Wo (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
68	M51	Z	0	0	0	%100
69	M52	X	2.145	2.145	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	10.645	10.645	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	10.645	10.645	0	%100
74	M54	Z	0	0	0	%100
75	M46B	X	7.769	7.769	0	%100
76	M46B	Z	0	0	0	%100
77	M47B	X	9.284	9.284	0	%100
78	M47B	Z	0	0	0	%100
79	MP2A	X	8.151	8.151	0	%100
80	MP2A	Z	0	0	0	%100
81	MP3A	X	8.151	8.151	0	%100
82	MP3A	Z	0	0	0	%100
83	MP4A	X	8.151	8.151	0	%100
84	MP4A	Z	0	0	0	%100
85	MP5A	X	8.151	8.151	0	%100
86	MP5A	Z	0	0	0	%100
87	M62	X	2.785	2.785	0	%100
88	M62	Z	0	0	0	%100
89	M63	X	2.451	2.451	0	%100
90	M63	Z	0	0	0	%100
91	M64	X	4.829	4.829	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	3.896	3.896	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	5.002	5.002	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	4.043	4.043	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.765	1.765	0	%100
2	M1	Z	1.019	1.019	0	%100
3	M2	X	1.765	1.765	0	%100
4	M2	Z	1.019	1.019	0	%100
5	MP1A	X	7.059	7.059	0	%100
6	MP1A	Z	4.075	4.075	0	%100
7	M17	X	1.115	1.115	0	%100
8	M17	Z	.643	.643	0	%100
9	M18	X	1.115	1.115	0	%100
10	M18	Z	.643	.643	0	%100
11	M21A	X	.372	.372	0	%100
12	M21A	Z	.214	.214	0	%100
13	M22A	X	.372	.372	0	%100
14	M22A	Z	.214	.214	0	%100
15	M22	X	1.441	1.441	0	%100
16	M22	Z	.832	.832	0	%100
17	M23	X	.094	.094	0	%100
18	M23	Z	.055	.055	0	%100
19	M24	X	1.44	1.44	0	%100
20	M24	Z	.832	.832	0	%100



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Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M25	X	.094	.094	0 %100
22	M25	Z	.055	.055	0 %100
23	M26	X	3.272	3.272	0 %100
24	M26	Z	1.889	1.889	0 %100
25	M27	X	.214	.214	0 %100
26	M27	Z	.124	.124	0 %100
27	M28	X	3.272	3.272	0 %100
28	M28	Z	1.889	1.889	0 %100
29	M29	X	.214	.214	0 %100
30	M29	Z	.124	.124	0 %100
31	M37	X	1.115	1.115	0 %100
32	M37	Z	.643	.643	0 %100
33	M38	X	1.115	1.115	0 %100
34	M38	Z	.643	.643	0 %100
35	M39	X	.372	.372	0 %100
36	M39	Z	.214	.214	0 %100
37	M40	X	.372	.372	0 %100
38	M40	Z	.214	.214	0 %100
39	M42	X	1.441	1.441	0 %100
40	M42	Z	.832	.832	0 %100
41	M43	X	.094	.094	0 %100
42	M43	Z	.055	.055	0 %100
43	M44	X	1.44	1.44	0 %100
44	M44	Z	.832	.832	0 %100
45	M45	X	.094	.094	0 %100
46	M45	Z	.055	.055	0 %100
47	M46	X	3.272	3.272	0 %100
48	M46	Z	1.889	1.889	0 %100
49	M47	X	.214	.214	0 %100
50	M47	Z	.124	.124	0 %100
51	M48	X	3.272	3.272	0 %100
52	M48	Z	1.889	1.889	0 %100
53	M49	X	.214	.214	0 %100
54	M49	Z	.124	.124	0 %100
55	M45A	X	1.858	1.858	0 %100
56	M45A	Z	1.072	1.072	0 %100
57	M46A	X	1.836	1.836	0 %100
58	M46A	Z	1.06	1.06	0 %100
59	M47A	X	1.836	1.836	0 %100
60	M47A	Z	1.06	1.06	0 %100
61	M48A	X	1.858	1.858	0 %100
62	M48A	Z	1.072	1.072	0 %100
63	M49A	X	1.858	1.858	0 %100
64	M49A	Z	1.072	1.072	0 %100
65	M50	X	1.578	1.578	0 %100
66	M50	Z	.911	.911	0 %100
67	M51	X	1.578	1.578	0 %100
68	M51	Z	.911	.911	0 %100
69	M52	X	1.858	1.858	0 %100
70	M52	Z	1.072	1.072	0 %100
71	M53	X	9.219	9.219	0 %100
72	M53	Z	5.322	5.322	0 %100
73	M54	X	9.219	9.219	0 %100
74	M54	Z	5.322	5.322	0 %100
75	M46B	X	10.878	10.878	0 %100
76	M46B	Z	6.28	6.28	0 %100
77	M47B	X	3.594	3.594	0 %100



Member Distributed Loads (BLC 45 : Structure Wo (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M47B	Z	2.075	2.075	0	%100
79	MP2A	X	7.059	7.059	0	%100
80	MP2A	Z	4.075	4.075	0	%100
81	MP3A	X	7.059	7.059	0	%100
82	MP3A	Z	4.075	4.075	0	%100
83	MP4A	X	7.059	7.059	0	%100
84	MP4A	Z	4.075	4.075	0	%100
85	MP5A	X	7.059	7.059	0	%100
86	MP5A	Z	4.075	4.075	0	%100
87	M62	X	5.87	5.87	0	%100
88	M62	Z	3.389	3.389	0	%100
89	M63	X	.023	.023	0	%100
90	M63	Z	.013	.013	0	%100
91	M64	X	10.041	10.041	0	%100
92	M64	Z	5.797	5.797	0	%100
93	M65	X	.106	.106	0	%100
94	M65	Z	.061	.061	0	%100
95	M66	X	9.968	9.968	0	%100
96	M66	Z	5.755	5.755	0	%100
97	M67	X	.872	.872	0	%100
98	M67	Z	.503	.503	0	%100
99	M68	X	2.136	2.136	0	%100
100	M68	Z	1.233	1.233	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	3.056	3.056	0	%100
2	M1	Z	5.294	5.294	0	%100
3	M2	X	3.056	3.056	0	%100
4	M2	Z	5.294	5.294	0	%100
5	MP1A	X	4.075	4.075	0	%100
6	MP1A	Z	7.059	7.059	0	%100
7	M17	X	.214	.214	0	%100
8	M17	Z	.372	.372	0	%100
9	M18	X	.214	.214	0	%100
10	M18	Z	.372	.372	0	%100
11	M21A	X	.643	.643	0	%100
12	M21A	Z	1.115	1.115	0	%100
13	M22A	X	.643	.643	0	%100
14	M22A	Z	1.115	1.115	0	%100
15	M22	X	.843	.843	0	%100
16	M22	Z	1.46	1.46	0	%100
17	M23	X	.066	.066	0	%100
18	M23	Z	.114	.114	0	%100
19	M24	X	.843	.843	0	%100
20	M24	Z	1.46	1.46	0	%100
21	M25	X	.066	.066	0	%100
22	M25	Z	.114	.114	0	%100
23	M26	X	1.915	1.915	0	%100
24	M26	Z	3.317	3.317	0	%100
25	M27	X	.15	.15	0	%100
26	M27	Z	.26	.26	0	%100
27	M28	X	1.915	1.915	0	%100
28	M28	Z	3.317	3.317	0	%100
29	M29	X	.15	.15	0	%100
30	M29	Z	.26	.26	0	%100



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Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	M37	X	.214	.214	0 %100
32	M37	Z	.372	.372	0 %100
33	M38	X	.214	.214	0 %100
34	M38	Z	.372	.372	0 %100
35	M39	X	.643	.643	0 %100
36	M39	Z	1.115	1.115	0 %100
37	M40	X	.643	.643	0 %100
38	M40	Z	1.115	1.115	0 %100
39	M42	X	.843	.843	0 %100
40	M42	Z	1.46	1.46	0 %100
41	M43	X	.066	.066	0 %100
42	M43	Z	.114	.114	0 %100
43	M44	X	.843	.843	0 %100
44	M44	Z	1.46	1.46	0 %100
45	M45	X	.066	.066	0 %100
46	M45	Z	.114	.114	0 %100
47	M46	X	1.915	1.915	0 %100
48	M46	Z	3.317	3.317	0 %100
49	M47	X	.15	.15	0 %100
50	M47	Z	.26	.26	0 %100
51	M48	X	1.915	1.915	0 %100
52	M48	Z	3.317	3.317	0 %100
53	M49	X	.15	.15	0 %100
54	M49	Z	.26	.26	0 %100
55	M45A	X	1.072	1.072	0 %100
56	M45A	Z	1.858	1.858	0 %100
57	M46A	X	1.062	1.062	0 %100
58	M46A	Z	1.839	1.839	0 %100
59	M47A	X	1.062	1.062	0 %100
60	M47A	Z	1.839	1.839	0 %100
61	M48A	X	1.072	1.072	0 %100
62	M48A	Z	1.858	1.858	0 %100
63	M49A	X	1.072	1.072	0 %100
64	M49A	Z	1.858	1.858	0 %100
65	M50	X	.913	.913	0 %100
66	M50	Z	1.582	1.582	0 %100
67	M51	X	.913	.913	0 %100
68	M51	Z	1.582	1.582	0 %100
69	M52	X	1.072	1.072	0 %100
70	M52	Z	1.858	1.858	0 %100
71	M53	X	5.322	5.322	0 %100
72	M53	Z	9.219	9.219	0 %100
73	M54	X	5.322	5.322	0 %100
74	M54	Z	9.219	9.219	0 %100
75	M46B	X	6.181	6.181	0 %100
76	M46B	Z	10.705	10.705	0 %100
77	M47B	X	1.186	1.186	0 %100
78	M47B	Z	2.055	2.055	0 %100
79	MP2A	X	4.075	4.075	0 %100
80	MP2A	Z	7.059	7.059	0 %100
81	MP3A	X	4.075	4.075	0 %100
82	MP3A	Z	7.059	7.059	0 %100
83	MP4A	X	4.075	4.075	0 %100
84	MP4A	Z	7.059	7.059	0 %100
85	MP5A	X	4.075	4.075	0 %100
86	MP5A	Z	7.059	7.059	0 %100
87	M62	X	4.034	4.034	0 %100



Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
88	M62	Z	6.987	6.987	0	%100
89	M63	X	.825	.825	0	%100
90	M63	Z	1.429	1.429	0	%100
91	M64	X	6.904	6.904	0	%100
92	M64	Z	11.959	11.959	0	%100
93	M65	X	1.717	1.717	0	%100
94	M65	Z	2.974	2.974	0	%100
95	M66	X	7.137	7.137	0	%100
96	M66	Z	12.362	12.362	0	%100
97	M67	X	2.306	2.306	0	%100
98	M67	Z	3.994	3.994	0	%100
99	M68	X	3.7	3.7	0	%100
100	M68	Z	6.408	6.408	0	%100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	8.151	8.151	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.151	8.151	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	8.151	8.151	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	0	0	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	1.716	1.716	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	1.716	1.716	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	.921	.921	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	.921	.921	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	.921	.921	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	.921	.921	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	2.091	2.091	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	2.091	2.091	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	2.091	2.091	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	2.091	2.091	0	%100
31	M37	X	0	0	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	1.716	1.716	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	1.716	1.716	0	%100
39	M42	X	0	0	0	%100
40	M42	Z	.921	.921	0	%100



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Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M43	X	0	0	0	%100
42	M43	Z	.921	.921	0	%100
43	M44	X	0	0	0	%100
44	M44	Z	.921	.921	0	%100
45	M45	X	0	0	0	%100
46	M45	Z	.921	.921	0	%100
47	M46	X	0	0	0	%100
48	M46	Z	2.091	2.091	0	%100
49	M47	X	0	0	0	%100
50	M47	Z	2.091	2.091	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	2.091	2.091	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	2.091	2.091	0	%100
55	M45A	X	0	0	0	%100
56	M45A	Z	2.145	2.145	0	%100
57	M46A	X	0	0	0	%100
58	M46A	Z	1.978	1.978	0	%100
59	M47A	X	0	0	0	%100
60	M47A	Z	1.978	1.978	0	%100
61	M48A	X	0	0	0	%100
62	M48A	Z	2.145	2.145	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	2.145	2.145	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	1.978	1.978	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	1.978	1.978	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	2.145	2.145	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	10.645	10.645	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	10.645	10.645	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	7.371	7.371	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	5.729	5.729	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	8.151	8.151	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	8.151	8.151	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	8.151	8.151	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	8.151	8.151	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	5.365	5.365	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	5.699	5.699	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	9.258	9.258	0	%100
93	M65	X	0	0	0	%100
94	M65	Z	10.52	10.52	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	10.532	10.532	0	%100
97	M67	X	0	0	0	%100



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Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
98	M67	Z	11.254	11.254	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	9.866	9.866	0	%100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.056	-3.056	0	%100
2	M1	Z	5.294	5.294	0	%100
3	M2	X	-3.056	-3.056	0	%100
4	M2	Z	5.294	5.294	0	%100
5	MP1A	X	-4.075	-4.075	0	%100
6	MP1A	Z	7.059	7.059	0	%100
7	M17	X	-.214	-.214	0	%100
8	M17	Z	.372	.372	0	%100
9	M18	X	-.214	-.214	0	%100
10	M18	Z	.372	.372	0	%100
11	M21A	X	-.643	-.643	0	%100
12	M21A	Z	1.115	1.115	0	%100
13	M22A	X	-.643	-.643	0	%100
14	M22A	Z	1.115	1.115	0	%100
15	M22	X	-.066	-.066	0	%100
16	M22	Z	.114	.114	0	%100
17	M23	X	-.843	-.843	0	%100
18	M23	Z	1.46	1.46	0	%100
19	M24	X	-.066	-.066	0	%100
20	M24	Z	.114	.114	0	%100
21	M25	X	-.843	-.843	0	%100
22	M25	Z	1.46	1.46	0	%100
23	M26	X	-.15	-.15	0	%100
24	M26	Z	.26	.26	0	%100
25	M27	X	-1.915	-1.915	0	%100
26	M27	Z	3.317	3.317	0	%100
27	M28	X	-.15	-.15	0	%100
28	M28	Z	.26	.26	0	%100
29	M29	X	-1.915	-1.915	0	%100
30	M29	Z	3.317	3.317	0	%100
31	M37	X	-.214	-.214	0	%100
32	M37	Z	.372	.372	0	%100
33	M38	X	-.214	-.214	0	%100
34	M38	Z	.372	.372	0	%100
35	M39	X	-.643	-.643	0	%100
36	M39	Z	1.115	1.115	0	%100
37	M40	X	-.643	-.643	0	%100
38	M40	Z	1.115	1.115	0	%100
39	M42	X	-.066	-.066	0	%100
40	M42	Z	.114	.114	0	%100
41	M43	X	-.843	-.843	0	%100
42	M43	Z	1.46	1.46	0	%100
43	M44	X	-.066	-.066	0	%100
44	M44	Z	.114	.114	0	%100
45	M45	X	-.843	-.843	0	%100
46	M45	Z	1.46	1.46	0	%100
47	M46	X	-.15	-.15	0	%100
48	M46	Z	.26	.26	0	%100
49	M47	X	-1.915	-1.915	0	%100
50	M47	Z	3.317	3.317	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
51	M48	X	-0.15	-0.15	0	%100
52	M48	Z	.26	.26	0	%100
53	M49	X	-1.915	-1.915	0	%100
54	M49	Z	3.317	3.317	0	%100
55	M45A	X	-1.072	-1.072	0	%100
56	M45A	Z	1.858	1.858	0	%100
57	M46A	X	-0.913	-0.913	0	%100
58	M46A	Z	1.582	1.582	0	%100
59	M47A	X	-0.913	-0.913	0	%100
60	M47A	Z	1.582	1.582	0	%100
61	M48A	X	-1.072	-1.072	0	%100
62	M48A	Z	1.858	1.858	0	%100
63	M49A	X	-1.072	-1.072	0	%100
64	M49A	Z	1.858	1.858	0	%100
65	M50	X	-1.062	-1.062	0	%100
66	M50	Z	1.839	1.839	0	%100
67	M51	X	-1.062	-1.062	0	%100
68	M51	Z	1.839	1.839	0	%100
69	M52	X	-1.072	-1.072	0	%100
70	M52	Z	1.858	1.858	0	%100
71	M53	X	-5.322	-5.322	0	%100
72	M53	Z	9.219	9.219	0	%100
73	M54	X	-5.322	-5.322	0	%100
74	M54	Z	9.219	9.219	0	%100
75	M46B	X	-1.289	-1.289	0	%100
76	M46B	Z	2.233	2.233	0	%100
77	M47B	X	-5.431	-5.431	0	%100
78	M47B	Z	9.407	9.407	0	%100
79	MP2A	X	-4.075	-4.075	0	%100
80	MP2A	Z	7.059	7.059	0	%100
81	MP3A	X	-4.075	-4.075	0	%100
82	MP3A	Z	7.059	7.059	0	%100
83	MP4A	X	-4.075	-4.075	0	%100
84	MP4A	Z	7.059	7.059	0	%100
85	MP5A	X	-4.075	-4.075	0	%100
86	MP5A	Z	7.059	7.059	0	%100
87	M62	X	-0.686	-0.686	0	%100
88	M62	Z	1.188	1.188	0	%100
89	M63	X	-4.062	-4.062	0	%100
90	M63	Z	7.036	7.036	0	%100
91	M64	X	-1.247	-1.247	0	%100
92	M64	Z	2.159	2.159	0	%100
93	M65	X	-7.147	-7.147	0	%100
94	M65	Z	12.379	12.379	0	%100
95	M66	X	-2.012	-2.012	0	%100
96	M66	Z	3.485	3.485	0	%100
97	M67	X	-7.146	-7.146	0	%100
98	M67	Z	12.376	12.376	0	%100
99	M68	X	-3.7	-3.7	0	%100
100	M68	Z	6.408	6.408	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.765	-1.765	0	%100
2	M1	Z	1.019	1.019	0	%100
3	M2	X	-1.765	-1.765	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	1.019	1.019	0	%100
5	MP1A	X	-7.059	-7.059	0	%100
6	MP1A	Z	4.075	4.075	0	%100
7	M17	X	-1.115	-1.115	0	%100
8	M17	Z	.643	.643	0	%100
9	M18	X	-1.115	-1.115	0	%100
10	M18	Z	.643	.643	0	%100
11	M21A	X	-.372	-.372	0	%100
12	M21A	Z	.214	.214	0	%100
13	M22A	X	-.372	-.372	0	%100
14	M22A	Z	.214	.214	0	%100
15	M22	X	-.094	-.094	0	%100
16	M22	Z	.055	.055	0	%100
17	M23	X	-1.441	-1.441	0	%100
18	M23	Z	.832	.832	0	%100
19	M24	X	-.094	-.094	0	%100
20	M24	Z	.055	.055	0	%100
21	M25	X	-1.44	-1.44	0	%100
22	M25	Z	.832	.832	0	%100
23	M26	X	-.214	-.214	0	%100
24	M26	Z	.124	.124	0	%100
25	M27	X	-3.272	-3.272	0	%100
26	M27	Z	1.889	1.889	0	%100
27	M28	X	-.214	-.214	0	%100
28	M28	Z	.124	.124	0	%100
29	M29	X	-3.272	-3.272	0	%100
30	M29	Z	1.889	1.889	0	%100
31	M37	X	-1.115	-1.115	0	%100
32	M37	Z	.643	.643	0	%100
33	M38	X	-1.115	-1.115	0	%100
34	M38	Z	.643	.643	0	%100
35	M39	X	-.372	-.372	0	%100
36	M39	Z	.214	.214	0	%100
37	M40	X	-.372	-.372	0	%100
38	M40	Z	.214	.214	0	%100
39	M42	X	-.094	-.094	0	%100
40	M42	Z	.055	.055	0	%100
41	M43	X	-1.441	-1.441	0	%100
42	M43	Z	.832	.832	0	%100
43	M44	X	-.094	-.094	0	%100
44	M44	Z	.055	.055	0	%100
45	M45	X	-1.44	-1.44	0	%100
46	M45	Z	.832	.832	0	%100
47	M46	X	-.214	-.214	0	%100
48	M46	Z	.124	.124	0	%100
49	M47	X	-3.272	-3.272	0	%100
50	M47	Z	1.889	1.889	0	%100
51	M48	X	-.214	-.214	0	%100
52	M48	Z	.124	.124	0	%100
53	M49	X	-3.272	-3.272	0	%100
54	M49	Z	1.889	1.889	0	%100
55	M45A	X	-1.858	-1.858	0	%100
56	M45A	Z	1.072	1.072	0	%100
57	M46A	X	-1.578	-1.578	0	%100
58	M46A	Z	.911	.911	0	%100
59	M47A	X	-1.578	-1.578	0	%100
60	M47A	Z	.911	.911	0	%100



Member Distributed Loads (BLC 49 : Structure Wo (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M48A	X	-1.858	-1.858	0	%100
62	M48A	Z	1.072	1.072	0	%100
63	M49A	X	-1.858	-1.858	0	%100
64	M49A	Z	1.072	1.072	0	%100
65	M50	X	-1.836	-1.836	0	%100
66	M50	Z	1.06	1.06	0	%100
67	M51	X	-1.836	-1.836	0	%100
68	M51	Z	1.06	1.06	0	%100
69	M52	X	-1.858	-1.858	0	%100
70	M52	Z	1.072	1.072	0	%100
71	M53	X	-9.219	-9.219	0	%100
72	M53	Z	5.322	5.322	0	%100
73	M54	X	-9.219	-9.219	0	%100
74	M54	Z	5.322	5.322	0	%100
75	M46B	X	-2.406	-2.406	0	%100
76	M46B	Z	1.389	1.389	0	%100
77	M47B	X	-10.946	-10.946	0	%100
78	M47B	Z	6.32	6.32	0	%100
79	MP2A	X	-7.059	-7.059	0	%100
80	MP2A	Z	4.075	4.075	0	%100
81	MP3A	X	-7.059	-7.059	0	%100
82	MP3A	Z	4.075	4.075	0	%100
83	MP4A	X	-7.059	-7.059	0	%100
84	MP4A	Z	4.075	4.075	0	%100
85	MP5A	X	-7.059	-7.059	0	%100
86	MP5A	Z	4.075	4.075	0	%100
87	M62	X	-.071	-.071	0	%100
88	M62	Z	.041	.041	0	%100
89	M63	X	-5.629	-5.629	0	%100
90	M63	Z	3.25	3.25	0	%100
91	M64	X	-.241	-.241	0	%100
92	M64	Z	.139	.139	0	%100
93	M65	X	-9.511	-9.511	0	%100
94	M65	Z	5.491	5.491	0	%100
95	M66	X	-1.091	-1.091	0	%100
96	M66	Z	.63	.63	0	%100
97	M67	X	-9.254	-9.254	0	%100
98	M67	Z	5.343	5.343	0	%100
99	M68	X	-2.136	-2.136	0	%100
100	M68	Z	1.233	1.233	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	-8.151	-8.151	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	-1.716	-1.716	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	-1.716	-1.716	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100



Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
14	M22A	Z	0	0	0	%100
15	M22	X	-0.875	-0.875	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-0.875	-0.875	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	-0.875	-0.875	0	%100
20	M24	Z	0	0	0	%100
21	M25	X	-0.875	-0.875	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	-1.987	-1.987	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	-1.987	-1.987	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	-1.987	-1.987	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	-1.987	-1.987	0	%100
30	M29	Z	0	0	0	%100
31	M37	X	-1.716	-1.716	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	-1.716	-1.716	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	0	0	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M42	X	-0.875	-0.875	0	%100
40	M42	Z	0	0	0	%100
41	M43	X	-0.875	-0.875	0	%100
42	M43	Z	0	0	0	%100
43	M44	X	-0.875	-0.875	0	%100
44	M44	Z	0	0	0	%100
45	M45	X	-0.875	-0.875	0	%100
46	M45	Z	0	0	0	%100
47	M46	X	-1.987	-1.987	0	%100
48	M46	Z	0	0	0	%100
49	M47	X	-1.987	-1.987	0	%100
50	M47	Z	0	0	0	%100
51	M48	X	-1.987	-1.987	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	-1.987	-1.987	0	%100
54	M49	Z	0	0	0	%100
55	M45A	X	-2.145	-2.145	0	%100
56	M45A	Z	0	0	0	%100
57	M46A	X	-1.969	-1.969	0	%100
58	M46A	Z	0	0	0	%100
59	M47A	X	-1.969	-1.969	0	%100
60	M47A	Z	0	0	0	%100
61	M48A	X	-2.145	-2.145	0	%100
62	M48A	Z	0	0	0	%100
63	M49A	X	-2.145	-2.145	0	%100
64	M49A	Z	0	0	0	%100
65	M50	X	-1.969	-1.969	0	%100
66	M50	Z	0	0	0	%100
67	M51	X	-1.969	-1.969	0	%100
68	M51	Z	0	0	0	%100
69	M52	X	-2.145	-2.145	0	%100
70	M52	Z	0	0	0	%100



Member Distributed Loads (BLC 50 : Structure Wo (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	M53	X	-10.645	-10.645	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-10.645	-10.645	0	%100
74	M54	Z	0	0	0	%100
75	M46B	X	-7.769	-7.769	0	%100
76	M46B	Z	0	0	0	%100
77	M47B	X	-9.284	-9.284	0	%100
78	M47B	Z	0	0	0	%100
79	MP2A	X	-8.151	-8.151	0	%100
80	MP2A	Z	0	0	0	%100
81	MP3A	X	-8.151	-8.151	0	%100
82	MP3A	Z	0	0	0	%100
83	MP4A	X	-8.151	-8.151	0	%100
84	MP4A	Z	0	0	0	%100
85	MP5A	X	-8.151	-8.151	0	%100
86	MP5A	Z	0	0	0	%100
87	M62	X	-2.785	-2.785	0	%100
88	M62	Z	0	0	0	%100
89	M63	X	-2.451	-2.451	0	%100
90	M63	Z	0	0	0	%100
91	M64	X	-4.829	-4.829	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	-3.896	-3.896	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	-5.002	-5.002	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	-4.043	-4.043	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.765	-1.765	0	%100
2	M1	Z	-1.019	-1.019	0	%100
3	M2	X	-1.765	-1.765	0	%100
4	M2	Z	-1.019	-1.019	0	%100
5	MP1A	X	-7.059	-7.059	0	%100
6	MP1A	Z	-4.075	-4.075	0	%100
7	M17	X	-1.115	-1.115	0	%100
8	M17	Z	-.643	-.643	0	%100
9	M18	X	-1.115	-1.115	0	%100
10	M18	Z	-.643	-.643	0	%100
11	M21A	X	-.372	-.372	0	%100
12	M21A	Z	-.214	-.214	0	%100
13	M22A	X	-.372	-.372	0	%100
14	M22A	Z	-.214	-.214	0	%100
15	M22	X	-1.441	-1.441	0	%100
16	M22	Z	-.832	-.832	0	%100
17	M23	X	-.094	-.094	0	%100
18	M23	Z	-.055	-.055	0	%100
19	M24	X	-1.44	-1.44	0	%100
20	M24	Z	-.832	-.832	0	%100
21	M25	X	-.094	-.094	0	%100
22	M25	Z	-.055	-.055	0	%100
23	M26	X	-3.272	-3.272	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M26	Z	-1.889	-1.889	0	%100
25	M27	X	-.214	-.214	0	%100
26	M27	Z	-.124	-.124	0	%100
27	M28	X	-3.272	-3.272	0	%100
28	M28	Z	-1.889	-1.889	0	%100
29	M29	X	-.214	-.214	0	%100
30	M29	Z	-.124	-.124	0	%100
31	M37	X	-1.115	-1.115	0	%100
32	M37	Z	-.643	-.643	0	%100
33	M38	X	-1.115	-1.115	0	%100
34	M38	Z	-.643	-.643	0	%100
35	M39	X	-.372	-.372	0	%100
36	M39	Z	-.214	-.214	0	%100
37	M40	X	-.372	-.372	0	%100
38	M40	Z	-.214	-.214	0	%100
39	M42	X	-1.441	-1.441	0	%100
40	M42	Z	-.832	-.832	0	%100
41	M43	X	-.094	-.094	0	%100
42	M43	Z	-.055	-.055	0	%100
43	M44	X	-1.44	-1.44	0	%100
44	M44	Z	-.832	-.832	0	%100
45	M45	X	-.094	-.094	0	%100
46	M45	Z	-.055	-.055	0	%100
47	M46	X	-3.272	-3.272	0	%100
48	M46	Z	-1.889	-1.889	0	%100
49	M47	X	-.214	-.214	0	%100
50	M47	Z	-.124	-.124	0	%100
51	M48	X	-3.272	-3.272	0	%100
52	M48	Z	-1.889	-1.889	0	%100
53	M49	X	-.214	-.214	0	%100
54	M49	Z	-.124	-.124	0	%100
55	M45A	X	-1.858	-1.858	0	%100
56	M45A	Z	-1.072	-1.072	0	%100
57	M46A	X	-1.836	-1.836	0	%100
58	M46A	Z	-1.06	-1.06	0	%100
59	M47A	X	-1.836	-1.836	0	%100
60	M47A	Z	-1.06	-1.06	0	%100
61	M48A	X	-1.858	-1.858	0	%100
62	M48A	Z	-1.072	-1.072	0	%100
63	M49A	X	-1.858	-1.858	0	%100
64	M49A	Z	-1.072	-1.072	0	%100
65	M50	X	-1.578	-1.578	0	%100
66	M50	Z	-.911	-.911	0	%100
67	M51	X	-1.578	-1.578	0	%100
68	M51	Z	-.911	-.911	0	%100
69	M52	X	-1.858	-1.858	0	%100
70	M52	Z	-1.072	-1.072	0	%100
71	M53	X	-9.219	-9.219	0	%100
72	M53	Z	-5.322	-5.322	0	%100
73	M54	X	-9.219	-9.219	0	%100
74	M54	Z	-5.322	-5.322	0	%100
75	M46B	X	-10.878	-10.878	0	%100
76	M46B	Z	-6.28	-6.28	0	%100
77	M47B	X	-3.594	-3.594	0	%100
78	M47B	Z	-2.075	-2.075	0	%100
79	MP2A	X	-7.059	-7.059	0	%100
80	MP2A	Z	-4.075	-4.075	0	%100



Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
81	MP3A	X	-7.059	-7.059	0	%100
82	MP3A	Z	-4.075	-4.075	0	%100
83	MP4A	X	-7.059	-7.059	0	%100
84	MP4A	Z	-4.075	-4.075	0	%100
85	MP5A	X	-7.059	-7.059	0	%100
86	MP5A	Z	-4.075	-4.075	0	%100
87	M62	X	-5.87	-5.87	0	%100
88	M62	Z	-3.389	-3.389	0	%100
89	M63	X	-.023	-.023	0	%100
90	M63	Z	-.013	-.013	0	%100
91	M64	X	-10.041	-10.041	0	%100
92	M64	Z	-5.797	-5.797	0	%100
93	M65	X	-.106	-.106	0	%100
94	M65	Z	-.061	-.061	0	%100
95	M66	X	-9.968	-9.968	0	%100
96	M66	Z	-5.755	-5.755	0	%100
97	M67	X	-.872	-.872	0	%100
98	M67	Z	-.503	-.503	0	%100
99	M68	X	-2.136	-2.136	0	%100
100	M68	Z	-1.233	-1.233	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.056	-3.056	0	%100
2	M1	Z	-5.294	-5.294	0	%100
3	M2	X	-3.056	-3.056	0	%100
4	M2	Z	-5.294	-5.294	0	%100
5	MP1A	X	-4.075	-4.075	0	%100
6	MP1A	Z	-7.059	-7.059	0	%100
7	M17	X	-.214	-.214	0	%100
8	M17	Z	-.372	-.372	0	%100
9	M18	X	-.214	-.214	0	%100
10	M18	Z	-.372	-.372	0	%100
11	M21A	X	-.643	-.643	0	%100
12	M21A	Z	-1.115	-1.115	0	%100
13	M22A	X	-.643	-.643	0	%100
14	M22A	Z	-1.115	-1.115	0	%100
15	M22	X	-.843	-.843	0	%100
16	M22	Z	-1.46	-1.46	0	%100
17	M23	X	-.066	-.066	0	%100
18	M23	Z	-.114	-.114	0	%100
19	M24	X	-.843	-.843	0	%100
20	M24	Z	-1.46	-1.46	0	%100
21	M25	X	-.066	-.066	0	%100
22	M25	Z	-.114	-.114	0	%100
23	M26	X	-1.915	-1.915	0	%100
24	M26	Z	-3.317	-3.317	0	%100
25	M27	X	-.15	-.15	0	%100
26	M27	Z	-.26	-.26	0	%100
27	M28	X	-1.915	-1.915	0	%100
28	M28	Z	-3.317	-3.317	0	%100
29	M29	X	-.15	-.15	0	%100
30	M29	Z	-.26	-.26	0	%100
31	M37	X	-.214	-.214	0	%100
32	M37	Z	-.372	-.372	0	%100
33	M38	X	-.214	-.214	0	%100



Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M38	Z	-.372	-.372	0	%100
35	M39	X	-.643	-.643	0	%100
36	M39	Z	-1.115	-1.115	0	%100
37	M40	X	-.643	-.643	0	%100
38	M40	Z	-1.115	-1.115	0	%100
39	M42	X	-.843	-.843	0	%100
40	M42	Z	-1.46	-1.46	0	%100
41	M43	X	-.066	-.066	0	%100
42	M43	Z	-.114	-.114	0	%100
43	M44	X	-.843	-.843	0	%100
44	M44	Z	-1.46	-1.46	0	%100
45	M45	X	-.066	-.066	0	%100
46	M45	Z	-.114	-.114	0	%100
47	M46	X	-1.915	-1.915	0	%100
48	M46	Z	-3.317	-3.317	0	%100
49	M47	X	-.15	-.15	0	%100
50	M47	Z	-.26	-.26	0	%100
51	M48	X	-1.915	-1.915	0	%100
52	M48	Z	-3.317	-3.317	0	%100
53	M49	X	-.15	-.15	0	%100
54	M49	Z	-.26	-.26	0	%100
55	M45A	X	-1.072	-1.072	0	%100
56	M45A	Z	-1.858	-1.858	0	%100
57	M46A	X	-1.062	-1.062	0	%100
58	M46A	Z	-1.839	-1.839	0	%100
59	M47A	X	-1.062	-1.062	0	%100
60	M47A	Z	-1.839	-1.839	0	%100
61	M48A	X	-1.072	-1.072	0	%100
62	M48A	Z	-1.858	-1.858	0	%100
63	M49A	X	-1.072	-1.072	0	%100
64	M49A	Z	-1.858	-1.858	0	%100
65	M50	X	-.913	-.913	0	%100
66	M50	Z	-1.582	-1.582	0	%100
67	M51	X	-.913	-.913	0	%100
68	M51	Z	-1.582	-1.582	0	%100
69	M52	X	-1.072	-1.072	0	%100
70	M52	Z	-1.858	-1.858	0	%100
71	M53	X	-5.322	-5.322	0	%100
72	M53	Z	-9.219	-9.219	0	%100
73	M54	X	-5.322	-5.322	0	%100
74	M54	Z	-9.219	-9.219	0	%100
75	M46B	X	-6.181	-6.181	0	%100
76	M46B	Z	-10.705	-10.705	0	%100
77	M47B	X	-1.186	-1.186	0	%100
78	M47B	Z	-2.055	-2.055	0	%100
79	MP2A	X	-4.075	-4.075	0	%100
80	MP2A	Z	-7.059	-7.059	0	%100
81	MP3A	X	-4.075	-4.075	0	%100
82	MP3A	Z	-7.059	-7.059	0	%100
83	MP4A	X	-4.075	-4.075	0	%100
84	MP4A	Z	-7.059	-7.059	0	%100
85	MP5A	X	-4.075	-4.075	0	%100
86	MP5A	Z	-7.059	-7.059	0	%100
87	M62	X	-4.034	-4.034	0	%100
88	M62	Z	-6.987	-6.987	0	%100
89	M63	X	-.825	-.825	0	%100
90	M63	Z	-1.429	-1.429	0	%100



Member Distributed Loads (BLC 52 : Structure Wo (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M64	X	-6.904	-6.904	0	%100
92	M64	Z	-11.959	-11.959	0	%100
93	M65	X	-1.717	-1.717	0	%100
94	M65	Z	-2.974	-2.974	0	%100
95	M66	X	-7.137	-7.137	0	%100
96	M66	Z	-12.362	-12.362	0	%100
97	M67	X	-2.306	-2.306	0	%100
98	M67	Z	-3.994	-3.994	0	%100
99	M68	X	-3.7	-3.7	0	%100
100	M68	Z	-6.408	-6.408	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-2.75	-2.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.75	-2.75	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-2.75	-2.75	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	0	0	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	-1.085	-1.085	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	-1.085	-1.085	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-0.563	-0.563	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-0.563	-0.563	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-0.563	-0.563	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	-0.563	-0.563	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	-0.82	-0.82	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-0.82	-0.82	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-0.82	-0.82	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-0.82	-0.82	0	%100
31	M37	X	0	0	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	-1.085	-1.085	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	-1.085	-1.085	0	%100
39	M42	X	0	0	0	%100
40	M42	Z	-0.563	-0.563	0	%100
41	M43	X	0	0	0	%100
42	M43	Z	-0.563	-0.563	0	%100
43	M44	X	0	0	0	%100



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 Designer :
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Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	M44	Z	-0.563	-0.563	0	%100
45	M45	X	0	0	0	%100
46	M45	Z	-0.563	-0.563	0	%100
47	M46	X	0	0	0	%100
48	M46	Z	-0.82	-0.82	0	%100
49	M47	X	0	0	0	%100
50	M47	Z	-0.82	-0.82	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-0.82	-0.82	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	-0.82	-0.82	0	%100
55	M45A	X	0	0	0	%100
56	M45A	Z	-1.421	-1.421	0	%100
57	M46A	X	0	0	0	%100
58	M46A	Z	-1.338	-1.338	0	%100
59	M47A	X	0	0	0	%100
60	M47A	Z	-1.338	-1.338	0	%100
61	M48A	X	0	0	0	%100
62	M48A	Z	-1.421	-1.421	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	-1.421	-1.421	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	-1.338	-1.338	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	-1.338	-1.338	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-1.421	-1.421	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-3.176	-3.176	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-3.176	-3.176	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	-1.975	-1.975	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	-1.531	-1.531	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-2.75	-2.75	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-2.75	-2.75	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	-2.75	-2.75	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	-2.75	-2.75	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	-1.81	-1.81	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	-1.923	-1.923	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	-2.483	-2.483	0	%100
93	M65	X	0	0	0	%100
94	M65	Z	-2.795	-2.795	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	-2.799	-2.799	0	%100
97	M67	X	0	0	0	%100
98	M67	Z	-2.991	-2.991	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	-3.043	-3.043	0	%100



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 Designer :
 Job Number : Project No. 10037848
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Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.031	1.031	0	%100
2	M1	Z	-1.786	-1.786	0	%100
3	M2	X	1.031	1.031	0	%100
4	M2	Z	-1.786	-1.786	0	%100
5	MP1A	X	1.375	1.375	0	%100
6	MP1A	Z	-2.381	-2.381	0	%100
7	M17	X	.136	.136	0	%100
8	M17	Z	-.235	-.235	0	%100
9	M18	X	.136	.136	0	%100
10	M18	Z	-.235	-.235	0	%100
11	M21A	X	.407	.407	0	%100
12	M21A	Z	-.705	-.705	0	%100
13	M22A	X	.407	.407	0	%100
14	M22A	Z	-.705	-.705	0	%100
15	M22	X	.04	.04	0	%100
16	M22	Z	-.07	-.07	0	%100
17	M23	X	.516	.516	0	%100
18	M23	Z	-.894	-.894	0	%100
19	M24	X	.04	.04	0	%100
20	M24	Z	-.07	-.07	0	%100
21	M25	X	.516	.516	0	%100
22	M25	Z	-.894	-.894	0	%100
23	M26	X	.059	.059	0	%100
24	M26	Z	-.102	-.102	0	%100
25	M27	X	.751	.751	0	%100
26	M27	Z	-1.301	-1.301	0	%100
27	M28	X	.059	.059	0	%100
28	M28	Z	-.102	-.102	0	%100
29	M29	X	.751	.751	0	%100
30	M29	Z	-1.301	-1.301	0	%100
31	M37	X	.136	.136	0	%100
32	M37	Z	-.235	-.235	0	%100
33	M38	X	.136	.136	0	%100
34	M38	Z	-.235	-.235	0	%100
35	M39	X	.407	.407	0	%100
36	M39	Z	-.705	-.705	0	%100
37	M40	X	.407	.407	0	%100
38	M40	Z	-.705	-.705	0	%100
39	M42	X	.04	.04	0	%100
40	M42	Z	-.07	-.07	0	%100
41	M43	X	.516	.516	0	%100
42	M43	Z	-.894	-.894	0	%100
43	M44	X	.04	.04	0	%100
44	M44	Z	-.07	-.07	0	%100
45	M45	X	.516	.516	0	%100
46	M45	Z	-.894	-.894	0	%100
47	M46	X	.059	.059	0	%100
48	M46	Z	-.102	-.102	0	%100
49	M47	X	.751	.751	0	%100
50	M47	Z	-1.301	-1.301	0	%100
51	M48	X	.059	.059	0	%100
52	M48	Z	-.102	-.102	0	%100
53	M49	X	.751	.751	0	%100
54	M49	Z	-1.301	-1.301	0	%100
55	M45A	X	.711	.711	0	%100
56	M45A	Z	-1.231	-1.231	0	%100
57	M46A	X	.618	.618	0	%100



Member Distributed Loads (BLC 54 : Structure Wi (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M46A	Z	-1.07	-1.07	0	%100
59	M47A	X	.618	.618	0	%100
60	M47A	Z	-1.07	-1.07	0	%100
61	M48A	X	.711	.711	0	%100
62	M48A	Z	-1.231	-1.231	0	%100
63	M49A	X	.711	.711	0	%100
64	M49A	Z	-1.231	-1.231	0	%100
65	M50	X	.718	.718	0	%100
66	M50	Z	-1.244	-1.244	0	%100
67	M51	X	.718	.718	0	%100
68	M51	Z	-1.244	-1.244	0	%100
69	M52	X	.711	.711	0	%100
70	M52	Z	-1.231	-1.231	0	%100
71	M53	X	1.588	1.588	0	%100
72	M53	Z	-2.75	-2.75	0	%100
73	M54	X	1.588	1.588	0	%100
74	M54	Z	-2.75	-2.75	0	%100
75	M46B	X	.345	.345	0	%100
76	M46B	Z	-.598	-.598	0	%100
77	M47B	X	1.452	1.452	0	%100
78	M47B	Z	-2.514	-2.514	0	%100
79	MP2A	X	1.375	1.375	0	%100
80	MP2A	Z	-2.381	-2.381	0	%100
81	MP3A	X	1.375	1.375	0	%100
82	MP3A	Z	-2.381	-2.381	0	%100
83	MP4A	X	1.375	1.375	0	%100
84	MP4A	Z	-2.381	-2.381	0	%100
85	MP5A	X	1.375	1.375	0	%100
86	MP5A	Z	-2.381	-2.381	0	%100
87	M62	X	.231	.231	0	%100
88	M62	Z	-.401	-.401	0	%100
89	M63	X	1.37	1.37	0	%100
90	M63	Z	-2.374	-2.374	0	%100
91	M64	X	.334	.334	0	%100
92	M64	Z	-.579	-.579	0	%100
93	M65	X	1.899	1.899	0	%100
94	M65	Z	-3.289	-3.289	0	%100
95	M66	X	.535	.535	0	%100
96	M66	Z	-.926	-.926	0	%100
97	M67	X	1.899	1.899	0	%100
98	M67	Z	-3.289	-3.289	0	%100
99	M68	X	1.141	1.141	0	%100
100	M68	Z	-1.976	-1.976	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.595	.595	0	%100
2	M1	Z	-.344	-.344	0	%100
3	M2	X	.595	.595	0	%100
4	M2	Z	-.344	-.344	0	%100
5	MP1A	X	2.381	2.381	0	%100
6	MP1A	Z	-1.375	-1.375	0	%100
7	M17	X	.705	.705	0	%100
8	M17	Z	-.407	-.407	0	%100
9	M18	X	.705	.705	0	%100
10	M18	Z	-.407	-.407	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M21A	X	.235	.235	0 %100
12	M21A	Z	-.136	-.136	0 %100
13	M22A	X	.235	.235	0 %100
14	M22A	Z	-.136	-.136	0 %100
15	M22	X	.058	.058	0 %100
16	M22	Z	-.033	-.033	0 %100
17	M23	X	.882	.882	0 %100
18	M23	Z	-.509	-.509	0 %100
19	M24	X	.058	.058	0 %100
20	M24	Z	-.033	-.033	0 %100
21	M25	X	.882	.882	0 %100
22	M25	Z	-.509	-.509	0 %100
23	M26	X	.084	.084	0 %100
24	M26	Z	-.049	-.049	0 %100
25	M27	X	1.283	1.283	0 %100
26	M27	Z	-.741	-.741	0 %100
27	M28	X	.084	.084	0 %100
28	M28	Z	-.049	-.049	0 %100
29	M29	X	1.283	1.283	0 %100
30	M29	Z	-.741	-.741	0 %100
31	M37	X	.705	.705	0 %100
32	M37	Z	-.407	-.407	0 %100
33	M38	X	.705	.705	0 %100
34	M38	Z	-.407	-.407	0 %100
35	M39	X	.235	.235	0 %100
36	M39	Z	-.136	-.136	0 %100
37	M40	X	.235	.235	0 %100
38	M40	Z	-.136	-.136	0 %100
39	M42	X	.058	.058	0 %100
40	M42	Z	-.033	-.033	0 %100
41	M43	X	.882	.882	0 %100
42	M43	Z	-.509	-.509	0 %100
43	M44	X	.058	.058	0 %100
44	M44	Z	-.033	-.033	0 %100
45	M45	X	.882	.882	0 %100
46	M45	Z	-.509	-.509	0 %100
47	M46	X	.084	.084	0 %100
48	M46	Z	-.049	-.049	0 %100
49	M47	X	1.283	1.283	0 %100
50	M47	Z	-.741	-.741	0 %100
51	M48	X	.084	.084	0 %100
52	M48	Z	-.049	-.049	0 %100
53	M49	X	1.283	1.283	0 %100
54	M49	Z	-.741	-.741	0 %100
55	M45A	X	1.231	1.231	0 %100
56	M45A	Z	-.711	-.711	0 %100
57	M46A	X	1.068	1.068	0 %100
58	M46A	Z	-.616	-.616	0 %100
59	M47A	X	1.068	1.068	0 %100
60	M47A	Z	-.616	-.616	0 %100
61	M48A	X	1.231	1.231	0 %100
62	M48A	Z	-.711	-.711	0 %100
63	M49A	X	1.231	1.231	0 %100
64	M49A	Z	-.711	-.711	0 %100
65	M50	X	1.242	1.242	0 %100
66	M50	Z	-.717	-.717	0 %100
67	M51	X	1.242	1.242	0 %100



Member Distributed Loads (BLC 55 : Structure Wi (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
68	M51	Z	-717	-717	0	%100
69	M52	X	1.231	1.231	0	%100
70	M52	Z	-711	-711	0	%100
71	M53	X	2.75	2.75	0	%100
72	M53	Z	-1.588	-1.588	0	%100
73	M54	X	2.75	2.75	0	%100
74	M54	Z	-1.588	-1.588	0	%100
75	M46B	X	.645	.645	0	%100
76	M46B	Z	-.372	-.372	0	%100
77	M47B	X	2.926	2.926	0	%100
78	M47B	Z	-1.689	-1.689	0	%100
79	MP2A	X	2.381	2.381	0	%100
80	MP2A	Z	-1.375	-1.375	0	%100
81	MP3A	X	2.381	2.381	0	%100
82	MP3A	Z	-1.375	-1.375	0	%100
83	MP4A	X	2.381	2.381	0	%100
84	MP4A	Z	-1.375	-1.375	0	%100
85	MP5A	X	2.381	2.381	0	%100
86	MP5A	Z	-1.375	-1.375	0	%100
87	M62	X	.024	.024	0	%100
88	M62	Z	-.014	-.014	0	%100
89	M63	X	1.899	1.899	0	%100
90	M63	Z	-1.097	-1.097	0	%100
91	M64	X	.065	.065	0	%100
92	M64	Z	-.037	-.037	0	%100
93	M65	X	2.527	2.527	0	%100
94	M65	Z	-1.459	-1.459	0	%100
95	M66	X	.29	.29	0	%100
96	M66	Z	-.167	-.167	0	%100
97	M67	X	2.459	2.459	0	%100
98	M67	Z	-1.42	-1.42	0	%100
99	M68	X	.659	.659	0	%100
100	M68	Z	-.38	-.38	0	%100

Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	2.75	2.75	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	1.085	1.085	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	1.085	1.085	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	0	0	0	%100
15	M22	X	.535	.535	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.535	.535	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	.535	.535	0	%100
20	M24	Z	0	0	0	%100



Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
21	M25	X	.535	.535	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	.779	.779	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	.779	.779	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	.779	.779	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	.779	.779	0	%100
30	M29	Z	0	0	0	%100
31	M37	X	1.085	1.085	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	1.085	1.085	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	0	0	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M42	X	.535	.535	0	%100
40	M42	Z	0	0	0	%100
41	M43	X	.535	.535	0	%100
42	M43	Z	0	0	0	%100
43	M44	X	.535	.535	0	%100
44	M44	Z	0	0	0	%100
45	M45	X	.535	.535	0	%100
46	M45	Z	0	0	0	%100
47	M46	X	.779	.779	0	%100
48	M46	Z	0	0	0	%100
49	M47	X	.779	.779	0	%100
50	M47	Z	0	0	0	%100
51	M48	X	.779	.779	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	.779	.779	0	%100
54	M49	Z	0	0	0	%100
55	M45A	X	1.421	1.421	0	%100
56	M45A	Z	0	0	0	%100
57	M46A	X	1.332	1.332	0	%100
58	M46A	Z	0	0	0	%100
59	M47A	X	1.332	1.332	0	%100
60	M47A	Z	0	0	0	%100
61	M48A	X	1.421	1.421	0	%100
62	M48A	Z	0	0	0	%100
63	M49A	X	1.421	1.421	0	%100
64	M49A	Z	0	0	0	%100
65	M50	X	1.332	1.332	0	%100
66	M50	Z	0	0	0	%100
67	M51	X	1.332	1.332	0	%100
68	M51	Z	0	0	0	%100
69	M52	X	1.421	1.421	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	3.176	3.176	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	3.176	3.176	0	%100
74	M54	Z	0	0	0	%100
75	M46B	X	2.082	2.082	0	%100
76	M46B	Z	0	0	0	%100
77	M47B	X	2.481	2.481	0	%100



Member Distributed Loads (BLC 56 : Structure Wi (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M47B	Z	0	0	0	%100
79	MP2A	X	2.75	2.75	0	%100
80	MP2A	Z	0	0	0	%100
81	MP3A	X	2.75	2.75	0	%100
82	MP3A	Z	0	0	0	%100
83	MP4A	X	2.75	2.75	0	%100
84	MP4A	Z	0	0	0	%100
85	MP5A	X	2.75	2.75	0	%100
86	MP5A	Z	0	0	0	%100
87	M62	X	.94	.94	0	%100
88	M62	Z	0	0	0	%100
89	M63	X	.827	.827	0	%100
90	M63	Z	0	0	0	%100
91	M64	X	1.295	1.295	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	1.035	1.035	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	1.329	1.329	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	1.074	1.074	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.595	.595	0	%100
2	M1	Z	.344	.344	0	%100
3	M2	X	.595	.595	0	%100
4	M2	Z	.344	.344	0	%100
5	MP1A	X	2.381	2.381	0	%100
6	MP1A	Z	1.375	1.375	0	%100
7	M17	X	.705	.705	0	%100
8	M17	Z	.407	.407	0	%100
9	M18	X	.705	.705	0	%100
10	M18	Z	.407	.407	0	%100
11	M21A	X	.235	.235	0	%100
12	M21A	Z	.136	.136	0	%100
13	M22A	X	.235	.235	0	%100
14	M22A	Z	.136	.136	0	%100
15	M22	X	.882	.882	0	%100
16	M22	Z	.509	.509	0	%100
17	M23	X	.058	.058	0	%100
18	M23	Z	.033	.033	0	%100
19	M24	X	.882	.882	0	%100
20	M24	Z	.509	.509	0	%100
21	M25	X	.058	.058	0	%100
22	M25	Z	.033	.033	0	%100
23	M26	X	1.283	1.283	0	%100
24	M26	Z	.741	.741	0	%100
25	M27	X	.084	.084	0	%100
26	M27	Z	.049	.049	0	%100
27	M28	X	1.283	1.283	0	%100
28	M28	Z	.741	.741	0	%100
29	M29	X	.084	.084	0	%100
30	M29	Z	.049	.049	0	%100



Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	M37	X	.705	.705	0 %100
32	M37	Z	.407	.407	0 %100
33	M38	X	.705	.705	0 %100
34	M38	Z	.407	.407	0 %100
35	M39	X	.235	.235	0 %100
36	M39	Z	.136	.136	0 %100
37	M40	X	.235	.235	0 %100
38	M40	Z	.136	.136	0 %100
39	M42	X	.882	.882	0 %100
40	M42	Z	.509	.509	0 %100
41	M43	X	.058	.058	0 %100
42	M43	Z	.033	.033	0 %100
43	M44	X	.882	.882	0 %100
44	M44	Z	.509	.509	0 %100
45	M45	X	.058	.058	0 %100
46	M45	Z	.033	.033	0 %100
47	M46	X	1.283	1.283	0 %100
48	M46	Z	.741	.741	0 %100
49	M47	X	.084	.084	0 %100
50	M47	Z	.049	.049	0 %100
51	M48	X	1.283	1.283	0 %100
52	M48	Z	.741	.741	0 %100
53	M49	X	.084	.084	0 %100
54	M49	Z	.049	.049	0 %100
55	M45A	X	1.231	1.231	0 %100
56	M45A	Z	.711	.711	0 %100
57	M46A	X	1.242	1.242	0 %100
58	M46A	Z	.717	.717	0 %100
59	M47A	X	1.242	1.242	0 %100
60	M47A	Z	.717	.717	0 %100
61	M48A	X	1.231	1.231	0 %100
62	M48A	Z	.711	.711	0 %100
63	M49A	X	1.231	1.231	0 %100
64	M49A	Z	.711	.711	0 %100
65	M50	X	1.068	1.068	0 %100
66	M50	Z	.616	.616	0 %100
67	M51	X	1.068	1.068	0 %100
68	M51	Z	.616	.616	0 %100
69	M52	X	1.231	1.231	0 %100
70	M52	Z	.711	.711	0 %100
71	M53	X	2.75	2.75	0 %100
72	M53	Z	1.588	1.588	0 %100
73	M54	X	2.75	2.75	0 %100
74	M54	Z	1.588	1.588	0 %100
75	M46B	X	2.915	2.915	0 %100
76	M46B	Z	1.683	1.683	0 %100
77	M47B	X	.961	.961	0 %100
78	M47B	Z	.555	.555	0 %100
79	MP2A	X	2.381	2.381	0 %100
80	MP2A	Z	1.375	1.375	0 %100
81	MP3A	X	2.381	2.381	0 %100
82	MP3A	Z	1.375	1.375	0 %100
83	MP4A	X	2.381	2.381	0 %100
84	MP4A	Z	1.375	1.375	0 %100
85	MP5A	X	2.381	2.381	0 %100
86	MP5A	Z	1.375	1.375	0 %100
87	M62	X	1.98	1.98	0 %100



Member Distributed Loads (BLC 57 : Structure Wi (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
88	M62	Z	1.143	1.143	0	%100
89	M63	X	.008	.008	0	%100
90	M63	Z	.004	.004	0	%100
91	M64	X	2.693	2.693	0	%100
92	M64	Z	1.555	1.555	0	%100
93	M65	X	.028	.028	0	%100
94	M65	Z	.016	.016	0	%100
95	M66	X	2.649	2.649	0	%100
96	M66	Z	1.529	1.529	0	%100
97	M67	X	.232	.232	0	%100
98	M67	Z	.134	.134	0	%100
99	M68	X	.659	.659	0	%100
100	M68	Z	.38	.38	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.031	1.031	0	%100
2	M1	Z	1.786	1.786	0	%100
3	M2	X	1.031	1.031	0	%100
4	M2	Z	1.786	1.786	0	%100
5	MP1A	X	1.375	1.375	0	%100
6	MP1A	Z	2.381	2.381	0	%100
7	M17	X	.136	.136	0	%100
8	M17	Z	.235	.235	0	%100
9	M18	X	.136	.136	0	%100
10	M18	Z	.235	.235	0	%100
11	M21A	X	.407	.407	0	%100
12	M21A	Z	.705	.705	0	%100
13	M22A	X	.407	.407	0	%100
14	M22A	Z	.705	.705	0	%100
15	M22	X	.516	.516	0	%100
16	M22	Z	.894	.894	0	%100
17	M23	X	.04	.04	0	%100
18	M23	Z	.07	.07	0	%100
19	M24	X	.516	.516	0	%100
20	M24	Z	.894	.894	0	%100
21	M25	X	.04	.04	0	%100
22	M25	Z	.07	.07	0	%100
23	M26	X	.751	.751	0	%100
24	M26	Z	1.301	1.301	0	%100
25	M27	X	.059	.059	0	%100
26	M27	Z	.102	.102	0	%100
27	M28	X	.751	.751	0	%100
28	M28	Z	1.301	1.301	0	%100
29	M29	X	.059	.059	0	%100
30	M29	Z	.102	.102	0	%100
31	M37	X	.136	.136	0	%100
32	M37	Z	.235	.235	0	%100
33	M38	X	.136	.136	0	%100
34	M38	Z	.235	.235	0	%100
35	M39	X	.407	.407	0	%100
36	M39	Z	.705	.705	0	%100
37	M40	X	.407	.407	0	%100
38	M40	Z	.705	.705	0	%100
39	M42	X	.516	.516	0	%100
40	M42	Z	.894	.894	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M43	X	.04	.04	0	%100
42	M43	Z	.07	.07	0	%100
43	M44	X	.516	.516	0	%100
44	M44	Z	.894	.894	0	%100
45	M45	X	.04	.04	0	%100
46	M45	Z	.07	.07	0	%100
47	M46	X	.751	.751	0	%100
48	M46	Z	1.301	1.301	0	%100
49	M47	X	.059	.059	0	%100
50	M47	Z	.102	.102	0	%100
51	M48	X	.751	.751	0	%100
52	M48	Z	1.301	1.301	0	%100
53	M49	X	.059	.059	0	%100
54	M49	Z	.102	.102	0	%100
55	M45A	X	.711	.711	0	%100
56	M45A	Z	1.231	1.231	0	%100
57	M46A	X	.718	.718	0	%100
58	M46A	Z	1.244	1.244	0	%100
59	M47A	X	.718	.718	0	%100
60	M47A	Z	1.244	1.244	0	%100
61	M48A	X	.711	.711	0	%100
62	M48A	Z	1.231	1.231	0	%100
63	M49A	X	.711	.711	0	%100
64	M49A	Z	1.231	1.231	0	%100
65	M50	X	.618	.618	0	%100
66	M50	Z	1.07	1.07	0	%100
67	M51	X	.618	.618	0	%100
68	M51	Z	1.07	1.07	0	%100
69	M52	X	.711	.711	0	%100
70	M52	Z	1.231	1.231	0	%100
71	M53	X	1.588	1.588	0	%100
72	M53	Z	2.75	2.75	0	%100
73	M54	X	1.588	1.588	0	%100
74	M54	Z	2.75	2.75	0	%100
75	M46B	X	1.656	1.656	0	%100
76	M46B	Z	2.868	2.868	0	%100
77	M47B	X	.317	.317	0	%100
78	M47B	Z	.549	.549	0	%100
79	MP2A	X	1.375	1.375	0	%100
80	MP2A	Z	2.381	2.381	0	%100
81	MP3A	X	1.375	1.375	0	%100
82	MP3A	Z	2.381	2.381	0	%100
83	MP4A	X	1.375	1.375	0	%100
84	MP4A	Z	2.381	2.381	0	%100
85	MP5A	X	1.375	1.375	0	%100
86	MP5A	Z	2.381	2.381	0	%100
87	M62	X	1.361	1.361	0	%100
88	M62	Z	2.357	2.357	0	%100
89	M63	X	.278	.278	0	%100
90	M63	Z	.482	.482	0	%100
91	M64	X	1.851	1.851	0	%100
92	M64	Z	3.207	3.207	0	%100
93	M65	X	.456	.456	0	%100
94	M65	Z	.79	.79	0	%100
95	M66	X	1.897	1.897	0	%100
96	M66	Z	3.285	3.285	0	%100
97	M67	X	.613	.613	0	%100



Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
98	M67	Z	1.061	1.061	0	%100
99	M68	X	1.141	1.141	0	%100
100	M68	Z	1.976	1.976	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	2.75	2.75	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.75	2.75	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	2.75	2.75	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	0	0	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	1.085	1.085	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	1.085	1.085	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	.563	.563	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	.563	.563	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	.563	.563	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	.563	.563	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	.82	.82	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	.82	.82	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	.82	.82	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	.82	.82	0	%100
31	M37	X	0	0	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	1.085	1.085	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	1.085	1.085	0	%100
39	M42	X	0	0	0	%100
40	M42	Z	.563	.563	0	%100
41	M43	X	0	0	0	%100
42	M43	Z	.563	.563	0	%100
43	M44	X	0	0	0	%100
44	M44	Z	.563	.563	0	%100
45	M45	X	0	0	0	%100
46	M45	Z	.563	.563	0	%100
47	M46	X	0	0	0	%100
48	M46	Z	.82	.82	0	%100
49	M47	X	0	0	0	%100
50	M47	Z	.82	.82	0	%100



Member Distributed Loads (BLC 59 : Structure Wi (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
51	M48	X	0	0	0	%100
52	M48	Z	.82	.82	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	.82	.82	0	%100
55	M45A	X	0	0	0	%100
56	M45A	Z	1.421	1.421	0	%100
57	M46A	X	0	0	0	%100
58	M46A	Z	1.338	1.338	0	%100
59	M47A	X	0	0	0	%100
60	M47A	Z	1.338	1.338	0	%100
61	M48A	X	0	0	0	%100
62	M48A	Z	1.421	1.421	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	1.421	1.421	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	1.338	1.338	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	1.338	1.338	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	1.421	1.421	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	3.176	3.176	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	3.176	3.176	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	1.975	1.975	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	1.531	1.531	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	2.75	2.75	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	2.75	2.75	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	2.75	2.75	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	2.75	2.75	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	1.81	1.81	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	1.923	1.923	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	2.483	2.483	0	%100
93	M65	X	0	0	0	%100
94	M65	Z	2.795	2.795	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	2.799	2.799	0	%100
97	M67	X	0	0	0	%100
98	M67	Z	2.991	2.991	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	3.043	3.043	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.031	-1.031	0	%100
2	M1	Z	1.786	1.786	0	%100
3	M2	X	-1.031	-1.031	0	%100



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 Designer :
 Job Number : Project No. 10037848
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Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	1.786	1.786	0 %100
5	MP1A	X	-1.375	-1.375	0 %100
6	MP1A	Z	2.381	2.381	0 %100
7	M17	X	-.136	-.136	0 %100
8	M17	Z	.235	.235	0 %100
9	M18	X	-.136	-.136	0 %100
10	M18	Z	.235	.235	0 %100
11	M21A	X	-.407	-.407	0 %100
12	M21A	Z	.705	.705	0 %100
13	M22A	X	-.407	-.407	0 %100
14	M22A	Z	.705	.705	0 %100
15	M22	X	-.04	-.04	0 %100
16	M22	Z	.07	.07	0 %100
17	M23	X	-.516	-.516	0 %100
18	M23	Z	.894	.894	0 %100
19	M24	X	-.04	-.04	0 %100
20	M24	Z	.07	.07	0 %100
21	M25	X	-.516	-.516	0 %100
22	M25	Z	.894	.894	0 %100
23	M26	X	-.059	-.059	0 %100
24	M26	Z	.102	.102	0 %100
25	M27	X	-.751	-.751	0 %100
26	M27	Z	1.301	1.301	0 %100
27	M28	X	-.059	-.059	0 %100
28	M28	Z	.102	.102	0 %100
29	M29	X	-.751	-.751	0 %100
30	M29	Z	1.301	1.301	0 %100
31	M37	X	-.136	-.136	0 %100
32	M37	Z	.235	.235	0 %100
33	M38	X	-.136	-.136	0 %100
34	M38	Z	.235	.235	0 %100
35	M39	X	-.407	-.407	0 %100
36	M39	Z	.705	.705	0 %100
37	M40	X	-.407	-.407	0 %100
38	M40	Z	.705	.705	0 %100
39	M42	X	-.04	-.04	0 %100
40	M42	Z	.07	.07	0 %100
41	M43	X	-.516	-.516	0 %100
42	M43	Z	.894	.894	0 %100
43	M44	X	-.04	-.04	0 %100
44	M44	Z	.07	.07	0 %100
45	M45	X	-.516	-.516	0 %100
46	M45	Z	.894	.894	0 %100
47	M46	X	-.059	-.059	0 %100
48	M46	Z	.102	.102	0 %100
49	M47	X	-.751	-.751	0 %100
50	M47	Z	1.301	1.301	0 %100
51	M48	X	-.059	-.059	0 %100
52	M48	Z	.102	.102	0 %100
53	M49	X	-.751	-.751	0 %100
54	M49	Z	1.301	1.301	0 %100
55	M45A	X	-.711	-.711	0 %100
56	M45A	Z	1.231	1.231	0 %100
57	M46A	X	-.618	-.618	0 %100
58	M46A	Z	1.07	1.07	0 %100
59	M47A	X	-.618	-.618	0 %100
60	M47A	Z	1.07	1.07	0 %100



Member Distributed Loads (BLC 60 : Structure Wi (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M48A	X	-711	-711	0	%100
62	M48A	Z	1.231	1.231	0	%100
63	M49A	X	-711	-711	0	%100
64	M49A	Z	1.231	1.231	0	%100
65	M50	X	-718	-718	0	%100
66	M50	Z	1.244	1.244	0	%100
67	M51	X	-718	-718	0	%100
68	M51	Z	1.244	1.244	0	%100
69	M52	X	-711	-711	0	%100
70	M52	Z	1.231	1.231	0	%100
71	M53	X	-1.588	-1.588	0	%100
72	M53	Z	2.75	2.75	0	%100
73	M54	X	-1.588	-1.588	0	%100
74	M54	Z	2.75	2.75	0	%100
75	M46B	X	-.345	-.345	0	%100
76	M46B	Z	.598	.598	0	%100
77	M47B	X	-1.452	-1.452	0	%100
78	M47B	Z	2.514	2.514	0	%100
79	MP2A	X	-1.375	-1.375	0	%100
80	MP2A	Z	2.381	2.381	0	%100
81	MP3A	X	-1.375	-1.375	0	%100
82	MP3A	Z	2.381	2.381	0	%100
83	MP4A	X	-1.375	-1.375	0	%100
84	MP4A	Z	2.381	2.381	0	%100
85	MP5A	X	-1.375	-1.375	0	%100
86	MP5A	Z	2.381	2.381	0	%100
87	M62	X	-.231	-.231	0	%100
88	M62	Z	.401	.401	0	%100
89	M63	X	-1.37	-1.37	0	%100
90	M63	Z	2.374	2.374	0	%100
91	M64	X	-.334	-.334	0	%100
92	M64	Z	.579	.579	0	%100
93	M65	X	-1.899	-1.899	0	%100
94	M65	Z	3.289	3.289	0	%100
95	M66	X	-.535	-.535	0	%100
96	M66	Z	.926	.926	0	%100
97	M67	X	-1.899	-1.899	0	%100
98	M67	Z	3.289	3.289	0	%100
99	M68	X	-1.141	-1.141	0	%100
100	M68	Z	1.976	1.976	0	%100

Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.595	-.595	0	%100
2	M1	Z	.344	.344	0	%100
3	M2	X	-.595	-.595	0	%100
4	M2	Z	.344	.344	0	%100
5	MP1A	X	-2.381	-2.381	0	%100
6	MP1A	Z	1.375	1.375	0	%100
7	M17	X	-.705	-.705	0	%100
8	M17	Z	.407	.407	0	%100
9	M18	X	-.705	-.705	0	%100
10	M18	Z	.407	.407	0	%100
11	M21A	X	-.235	-.235	0	%100
12	M21A	Z	.136	.136	0	%100
13	M22A	X	-.235	-.235	0	%100



Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M22A	Z	.136	.136	0	%100
15	M22	X	-.058	-.058	0	%100
16	M22	Z	.033	.033	0	%100
17	M23	X	-.882	-.882	0	%100
18	M23	Z	.509	.509	0	%100
19	M24	X	-.058	-.058	0	%100
20	M24	Z	.033	.033	0	%100
21	M25	X	-.882	-.882	0	%100
22	M25	Z	.509	.509	0	%100
23	M26	X	-.084	-.084	0	%100
24	M26	Z	.049	.049	0	%100
25	M27	X	-1.283	-1.283	0	%100
26	M27	Z	.741	.741	0	%100
27	M28	X	-.084	-.084	0	%100
28	M28	Z	.049	.049	0	%100
29	M29	X	-1.283	-1.283	0	%100
30	M29	Z	.741	.741	0	%100
31	M37	X	-.705	-.705	0	%100
32	M37	Z	.407	.407	0	%100
33	M38	X	-.705	-.705	0	%100
34	M38	Z	.407	.407	0	%100
35	M39	X	-.235	-.235	0	%100
36	M39	Z	.136	.136	0	%100
37	M40	X	-.235	-.235	0	%100
38	M40	Z	.136	.136	0	%100
39	M42	X	-.058	-.058	0	%100
40	M42	Z	.033	.033	0	%100
41	M43	X	-.882	-.882	0	%100
42	M43	Z	.509	.509	0	%100
43	M44	X	-.058	-.058	0	%100
44	M44	Z	.033	.033	0	%100
45	M45	X	-.882	-.882	0	%100
46	M45	Z	.509	.509	0	%100
47	M46	X	-.084	-.084	0	%100
48	M46	Z	.049	.049	0	%100
49	M47	X	-1.283	-1.283	0	%100
50	M47	Z	.741	.741	0	%100
51	M48	X	-.084	-.084	0	%100
52	M48	Z	.049	.049	0	%100
53	M49	X	-1.283	-1.283	0	%100
54	M49	Z	.741	.741	0	%100
55	M45A	X	-1.231	-1.231	0	%100
56	M45A	Z	.711	.711	0	%100
57	M46A	X	-1.068	-1.068	0	%100
58	M46A	Z	.616	.616	0	%100
59	M47A	X	-1.068	-1.068	0	%100
60	M47A	Z	.616	.616	0	%100
61	M48A	X	-1.231	-1.231	0	%100
62	M48A	Z	.711	.711	0	%100
63	M49A	X	-1.231	-1.231	0	%100
64	M49A	Z	.711	.711	0	%100
65	M50	X	-1.242	-1.242	0	%100
66	M50	Z	.717	.717	0	%100
67	M51	X	-1.242	-1.242	0	%100
68	M51	Z	.717	.717	0	%100
69	M52	X	-1.231	-1.231	0	%100
70	M52	Z	.711	.711	0	%100



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 Designer :
 Job Number : Project No. 10037848
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Member Distributed Loads (BLC 61 : Structure Wi (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	M53	X	-2.75	-2.75	0	%100
72	M53	Z	1.588	1.588	0	%100
73	M54	X	-2.75	-2.75	0	%100
74	M54	Z	1.588	1.588	0	%100
75	M46B	X	-.645	-.645	0	%100
76	M46B	Z	.372	.372	0	%100
77	M47B	X	-2.926	-2.926	0	%100
78	M47B	Z	1.689	1.689	0	%100
79	MP2A	X	-2.381	-2.381	0	%100
80	MP2A	Z	1.375	1.375	0	%100
81	MP3A	X	-2.381	-2.381	0	%100
82	MP3A	Z	1.375	1.375	0	%100
83	MP4A	X	-2.381	-2.381	0	%100
84	MP4A	Z	1.375	1.375	0	%100
85	MP5A	X	-2.381	-2.381	0	%100
86	MP5A	Z	1.375	1.375	0	%100
87	M62	X	-.024	-.024	0	%100
88	M62	Z	.014	.014	0	%100
89	M63	X	-1.899	-1.899	0	%100
90	M63	Z	1.097	1.097	0	%100
91	M64	X	-.065	-.065	0	%100
92	M64	Z	.037	.037	0	%100
93	M65	X	-2.527	-2.527	0	%100
94	M65	Z	1.459	1.459	0	%100
95	M66	X	-.29	-.29	0	%100
96	M66	Z	.167	.167	0	%100
97	M67	X	-2.459	-2.459	0	%100
98	M67	Z	1.42	1.42	0	%100
99	M68	X	-.659	-.659	0	%100
100	M68	Z	.38	.38	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	-2.75	-2.75	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	-1.085	-1.085	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	-1.085	-1.085	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	0	0	0	%100
15	M22	X	-.535	-.535	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-.535	-.535	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	-.535	-.535	0	%100
20	M24	Z	0	0	0	%100
21	M25	X	-.535	-.535	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	-.779	-.779	0	%100



Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M26	Z	0	0	0	%100
25	M27	X	-0.779	-0.779	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	-0.779	-0.779	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	-0.779	-0.779	0	%100
30	M29	Z	0	0	0	%100
31	M37	X	-1.085	-1.085	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	-1.085	-1.085	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	0	0	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M42	X	-0.535	-0.535	0	%100
40	M42	Z	0	0	0	%100
41	M43	X	-0.535	-0.535	0	%100
42	M43	Z	0	0	0	%100
43	M44	X	-0.535	-0.535	0	%100
44	M44	Z	0	0	0	%100
45	M45	X	-0.535	-0.535	0	%100
46	M45	Z	0	0	0	%100
47	M46	X	-0.779	-0.779	0	%100
48	M46	Z	0	0	0	%100
49	M47	X	-0.779	-0.779	0	%100
50	M47	Z	0	0	0	%100
51	M48	X	-0.779	-0.779	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	-0.779	-0.779	0	%100
54	M49	Z	0	0	0	%100
55	M45A	X	-1.421	-1.421	0	%100
56	M45A	Z	0	0	0	%100
57	M46A	X	-1.332	-1.332	0	%100
58	M46A	Z	0	0	0	%100
59	M47A	X	-1.332	-1.332	0	%100
60	M47A	Z	0	0	0	%100
61	M48A	X	-1.421	-1.421	0	%100
62	M48A	Z	0	0	0	%100
63	M49A	X	-1.421	-1.421	0	%100
64	M49A	Z	0	0	0	%100
65	M50	X	-1.332	-1.332	0	%100
66	M50	Z	0	0	0	%100
67	M51	X	-1.332	-1.332	0	%100
68	M51	Z	0	0	0	%100
69	M52	X	-1.421	-1.421	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-3.176	-3.176	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-3.176	-3.176	0	%100
74	M54	Z	0	0	0	%100
75	M46B	X	-2.082	-2.082	0	%100
76	M46B	Z	0	0	0	%100
77	M47B	X	-2.481	-2.481	0	%100
78	M47B	Z	0	0	0	%100
79	MP2A	X	-2.75	-2.75	0	%100
80	MP2A	Z	0	0	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 62 : Structure Wi (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
81	MP3A	X	-2.75	-2.75	0	%100
82	MP3A	Z	0	0	0	%100
83	MP4A	X	-2.75	-2.75	0	%100
84	MP4A	Z	0	0	0	%100
85	MP5A	X	-2.75	-2.75	0	%100
86	MP5A	Z	0	0	0	%100
87	M62	X	-.94	-.94	0	%100
88	M62	Z	0	0	0	%100
89	M63	X	-.827	-.827	0	%100
90	M63	Z	0	0	0	%100
91	M64	X	-1.295	-1.295	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	-1.035	-1.035	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	-1.329	-1.329	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	-1.074	-1.074	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.595	-.595	0	%100
2	M1	Z	-.344	-.344	0	%100
3	M2	X	-.595	-.595	0	%100
4	M2	Z	-.344	-.344	0	%100
5	MP1A	X	-2.381	-2.381	0	%100
6	MP1A	Z	-1.375	-1.375	0	%100
7	M17	X	-.705	-.705	0	%100
8	M17	Z	-.407	-.407	0	%100
9	M18	X	-.705	-.705	0	%100
10	M18	Z	-.407	-.407	0	%100
11	M21A	X	-.235	-.235	0	%100
12	M21A	Z	-.136	-.136	0	%100
13	M22A	X	-.235	-.235	0	%100
14	M22A	Z	-.136	-.136	0	%100
15	M22	X	-.882	-.882	0	%100
16	M22	Z	-.509	-.509	0	%100
17	M23	X	-.058	-.058	0	%100
18	M23	Z	-.033	-.033	0	%100
19	M24	X	-.882	-.882	0	%100
20	M24	Z	-.509	-.509	0	%100
21	M25	X	-.058	-.058	0	%100
22	M25	Z	-.033	-.033	0	%100
23	M26	X	-1.283	-1.283	0	%100
24	M26	Z	-.741	-.741	0	%100
25	M27	X	-.084	-.084	0	%100
26	M27	Z	-.049	-.049	0	%100
27	M28	X	-1.283	-1.283	0	%100
28	M28	Z	-.741	-.741	0	%100
29	M29	X	-.084	-.084	0	%100
30	M29	Z	-.049	-.049	0	%100
31	M37	X	-.705	-.705	0	%100
32	M37	Z	-.407	-.407	0	%100
33	M38	X	-.705	-.705	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M38	Z	-.407	-.407	0	%100
35	M39	X	-.235	-.235	0	%100
36	M39	Z	-.136	-.136	0	%100
37	M40	X	-.235	-.235	0	%100
38	M40	Z	-.136	-.136	0	%100
39	M42	X	-.882	-.882	0	%100
40	M42	Z	-.509	-.509	0	%100
41	M43	X	-.058	-.058	0	%100
42	M43	Z	-.033	-.033	0	%100
43	M44	X	-.882	-.882	0	%100
44	M44	Z	-.509	-.509	0	%100
45	M45	X	-.058	-.058	0	%100
46	M45	Z	-.033	-.033	0	%100
47	M46	X	-1.283	-1.283	0	%100
48	M46	Z	-.741	-.741	0	%100
49	M47	X	-.084	-.084	0	%100
50	M47	Z	-.049	-.049	0	%100
51	M48	X	-1.283	-1.283	0	%100
52	M48	Z	-.741	-.741	0	%100
53	M49	X	-.084	-.084	0	%100
54	M49	Z	-.049	-.049	0	%100
55	M45A	X	-1.231	-1.231	0	%100
56	M45A	Z	-.711	-.711	0	%100
57	M46A	X	-1.242	-1.242	0	%100
58	M46A	Z	-.717	-.717	0	%100
59	M47A	X	-1.242	-1.242	0	%100
60	M47A	Z	-.717	-.717	0	%100
61	M48A	X	-1.231	-1.231	0	%100
62	M48A	Z	-.711	-.711	0	%100
63	M49A	X	-1.231	-1.231	0	%100
64	M49A	Z	-.711	-.711	0	%100
65	M50	X	-1.068	-1.068	0	%100
66	M50	Z	-.616	-.616	0	%100
67	M51	X	-1.068	-1.068	0	%100
68	M51	Z	-.616	-.616	0	%100
69	M52	X	-1.231	-1.231	0	%100
70	M52	Z	-.711	-.711	0	%100
71	M53	X	-2.75	-2.75	0	%100
72	M53	Z	-1.588	-1.588	0	%100
73	M54	X	-2.75	-2.75	0	%100
74	M54	Z	-1.588	-1.588	0	%100
75	M46B	X	-2.915	-2.915	0	%100
76	M46B	Z	-1.683	-1.683	0	%100
77	M47B	X	-.961	-.961	0	%100
78	M47B	Z	-.555	-.555	0	%100
79	MP2A	X	-2.381	-2.381	0	%100
80	MP2A	Z	-1.375	-1.375	0	%100
81	MP3A	X	-2.381	-2.381	0	%100
82	MP3A	Z	-1.375	-1.375	0	%100
83	MP4A	X	-2.381	-2.381	0	%100
84	MP4A	Z	-1.375	-1.375	0	%100
85	MP5A	X	-2.381	-2.381	0	%100
86	MP5A	Z	-1.375	-1.375	0	%100
87	M62	X	-1.98	-1.98	0	%100
88	M62	Z	-1.143	-1.143	0	%100
89	M63	X	-.008	-.008	0	%100
90	M63	Z	-.004	-.004	0	%100



Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M64	X	-2.693	-2.693	0	%100
92	M64	Z	-1.555	-1.555	0	%100
93	M65	X	-.028	-.028	0	%100
94	M65	Z	-.016	-.016	0	%100
95	M66	X	-2.649	-2.649	0	%100
96	M66	Z	-1.529	-1.529	0	%100
97	M67	X	-.232	-.232	0	%100
98	M67	Z	-.134	-.134	0	%100
99	M68	X	-.659	-.659	0	%100
100	M68	Z	-.38	-.38	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.031	-1.031	0	%100
2	M1	Z	-1.786	-1.786	0	%100
3	M2	X	-1.031	-1.031	0	%100
4	M2	Z	-1.786	-1.786	0	%100
5	MP1A	X	-1.375	-1.375	0	%100
6	MP1A	Z	-2.381	-2.381	0	%100
7	M17	X	-.136	-.136	0	%100
8	M17	Z	-.235	-.235	0	%100
9	M18	X	-.136	-.136	0	%100
10	M18	Z	-.235	-.235	0	%100
11	M21A	X	-.407	-.407	0	%100
12	M21A	Z	-.705	-.705	0	%100
13	M22A	X	-.407	-.407	0	%100
14	M22A	Z	-.705	-.705	0	%100
15	M22	X	-.516	-.516	0	%100
16	M22	Z	-.894	-.894	0	%100
17	M23	X	-.04	-.04	0	%100
18	M23	Z	-.07	-.07	0	%100
19	M24	X	-.516	-.516	0	%100
20	M24	Z	-.894	-.894	0	%100
21	M25	X	-.04	-.04	0	%100
22	M25	Z	-.07	-.07	0	%100
23	M26	X	-.751	-.751	0	%100
24	M26	Z	-1.301	-1.301	0	%100
25	M27	X	-.059	-.059	0	%100
26	M27	Z	-.102	-.102	0	%100
27	M28	X	-.751	-.751	0	%100
28	M28	Z	-1.301	-1.301	0	%100
29	M29	X	-.059	-.059	0	%100
30	M29	Z	-.102	-.102	0	%100
31	M37	X	-.136	-.136	0	%100
32	M37	Z	-.235	-.235	0	%100
33	M38	X	-.136	-.136	0	%100
34	M38	Z	-.235	-.235	0	%100
35	M39	X	-.407	-.407	0	%100
36	M39	Z	-.705	-.705	0	%100
37	M40	X	-.407	-.407	0	%100
38	M40	Z	-.705	-.705	0	%100
39	M42	X	-.516	-.516	0	%100
40	M42	Z	-.894	-.894	0	%100
41	M43	X	-.04	-.04	0	%100
42	M43	Z	-.07	-.07	0	%100
43	M44	X	-.516	-.516	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 64 : Structure Wi (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	M44	Z	-0.894	-0.894	0	%100
45	M45	X	-0.04	-0.04	0	%100
46	M45	Z	-0.07	-0.07	0	%100
47	M46	X	-0.751	-0.751	0	%100
48	M46	Z	-1.301	-1.301	0	%100
49	M47	X	-0.059	-0.059	0	%100
50	M47	Z	-0.102	-0.102	0	%100
51	M48	X	-0.751	-0.751	0	%100
52	M48	Z	-1.301	-1.301	0	%100
53	M49	X	-0.059	-0.059	0	%100
54	M49	Z	-0.102	-0.102	0	%100
55	M45A	X	-0.711	-0.711	0	%100
56	M45A	Z	-1.231	-1.231	0	%100
57	M46A	X	-0.718	-0.718	0	%100
58	M46A	Z	-1.244	-1.244	0	%100
59	M47A	X	-0.718	-0.718	0	%100
60	M47A	Z	-1.244	-1.244	0	%100
61	M48A	X	-0.711	-0.711	0	%100
62	M48A	Z	-1.231	-1.231	0	%100
63	M49A	X	-0.711	-0.711	0	%100
64	M49A	Z	-1.231	-1.231	0	%100
65	M50	X	-0.618	-0.618	0	%100
66	M50	Z	-1.07	-1.07	0	%100
67	M51	X	-0.618	-0.618	0	%100
68	M51	Z	-1.07	-1.07	0	%100
69	M52	X	-0.711	-0.711	0	%100
70	M52	Z	-1.231	-1.231	0	%100
71	M53	X	-1.588	-1.588	0	%100
72	M53	Z	-2.75	-2.75	0	%100
73	M54	X	-1.588	-1.588	0	%100
74	M54	Z	-2.75	-2.75	0	%100
75	M46B	X	-1.656	-1.656	0	%100
76	M46B	Z	-2.868	-2.868	0	%100
77	M47B	X	-0.317	-0.317	0	%100
78	M47B	Z	-0.549	-0.549	0	%100
79	MP2A	X	-1.375	-1.375	0	%100
80	MP2A	Z	-2.381	-2.381	0	%100
81	MP3A	X	-1.375	-1.375	0	%100
82	MP3A	Z	-2.381	-2.381	0	%100
83	MP4A	X	-1.375	-1.375	0	%100
84	MP4A	Z	-2.381	-2.381	0	%100
85	MP5A	X	-1.375	-1.375	0	%100
86	MP5A	Z	-2.381	-2.381	0	%100
87	M62	X	-1.361	-1.361	0	%100
88	M62	Z	-2.357	-2.357	0	%100
89	M63	X	-0.278	-0.278	0	%100
90	M63	Z	-0.482	-0.482	0	%100
91	M64	X	-1.851	-1.851	0	%100
92	M64	Z	-3.207	-3.207	0	%100
93	M65	X	-0.456	-0.456	0	%100
94	M65	Z	-0.79	-0.79	0	%100
95	M66	X	-1.897	-1.897	0	%100
96	M66	Z	-3.285	-3.285	0	%100
97	M67	X	-0.613	-0.613	0	%100
98	M67	Z	-1.061	-1.061	0	%100
99	M68	X	-1.141	-1.141	0	%100
100	M68	Z	-1.976	-1.976	0	%100



Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-.501	-.501	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-.501	-.501	0	%100
5	MP1A	X	0	0	0	%100
6	MP1A	Z	-.501	-.501	0	%100
7	M17	X	0	0	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	0	0	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	-.105	-.105	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	-.105	-.105	0	%100
15	M22	X	0	0	0	%100
16	M22	Z	-.057	-.057	0	%100
17	M23	X	0	0	0	%100
18	M23	Z	-.057	-.057	0	%100
19	M24	X	0	0	0	%100
20	M24	Z	-.057	-.057	0	%100
21	M25	X	0	0	0	%100
22	M25	Z	-.057	-.057	0	%100
23	M26	X	0	0	0	%100
24	M26	Z	-.129	-.129	0	%100
25	M27	X	0	0	0	%100
26	M27	Z	-.129	-.129	0	%100
27	M28	X	0	0	0	%100
28	M28	Z	-.129	-.129	0	%100
29	M29	X	0	0	0	%100
30	M29	Z	-.129	-.129	0	%100
31	M37	X	0	0	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	0	0	0	%100
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	-.105	-.105	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	-.105	-.105	0	%100
39	M42	X	0	0	0	%100
40	M42	Z	-.057	-.057	0	%100
41	M43	X	0	0	0	%100
42	M43	Z	-.057	-.057	0	%100
43	M44	X	0	0	0	%100
44	M44	Z	-.057	-.057	0	%100
45	M45	X	0	0	0	%100
46	M45	Z	-.057	-.057	0	%100
47	M46	X	0	0	0	%100
48	M46	Z	-.129	-.129	0	%100
49	M47	X	0	0	0	%100
50	M47	Z	-.129	-.129	0	%100
51	M48	X	0	0	0	%100
52	M48	Z	-.129	-.129	0	%100
53	M49	X	0	0	0	%100
54	M49	Z	-.129	-.129	0	%100
55	M45A	X	0	0	0	%100
56	M45A	Z	-.132	-.132	0	%100
57	M46A	X	0	0	0	%100



Member Distributed Loads (BLC 65 : Structure Wm (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
58	M46A	Z	-.122	-.122	0	%100
59	M47A	X	0	0	0	%100
60	M47A	Z	-.122	-.122	0	%100
61	M48A	X	0	0	0	%100
62	M48A	Z	-.132	-.132	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	-.132	-.132	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	-.122	-.122	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	-.122	-.122	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	-.132	-.132	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	-.654	-.654	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	-.654	-.654	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	-.453	-.453	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	-.352	-.352	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	-.501	-.501	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	-.501	-.501	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	-.501	-.501	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	-.501	-.501	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	-.33	-.33	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	-.35	-.35	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	-.569	-.569	0	%100
93	M65	X	0	0	0	%100
94	M65	Z	-.647	-.647	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	-.647	-.647	0	%100
97	M67	X	0	0	0	%100
98	M67	Z	-.692	-.692	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	-.607	-.607	0	%100

Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.188	.188	0	%100
2	M1	Z	-.325	-.325	0	%100
3	M2	X	.188	.188	0	%100
4	M2	Z	-.325	-.325	0	%100
5	MP1A	X	.251	.251	0	%100
6	MP1A	Z	-.434	-.434	0	%100
7	M17	X	.013	.013	0	%100
8	M17	Z	-.023	-.023	0	%100
9	M18	X	.013	.013	0	%100
10	M18	Z	-.023	-.023	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
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Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
11	M21A	X	.04	.04	0 %100
12	M21A	Z	-.069	-.069	0 %100
13	M22A	X	.04	.04	0 %100
14	M22A	Z	-.069	-.069	0 %100
15	M22	X	.004	.004	0 %100
16	M22	Z	-.007	-.007	0 %100
17	M23	X	.052	.052	0 %100
18	M23	Z	-.09	-.09	0 %100
19	M24	X	.004	.004	0 %100
20	M24	Z	-.007	-.007	0 %100
21	M25	X	.052	.052	0 %100
22	M25	Z	-.09	-.09	0 %100
23	M26	X	.009	.009	0 %100
24	M26	Z	-.016	-.016	0 %100
25	M27	X	.118	.118	0 %100
26	M27	Z	-.204	-.204	0 %100
27	M28	X	.009	.009	0 %100
28	M28	Z	-.016	-.016	0 %100
29	M29	X	.118	.118	0 %100
30	M29	Z	-.204	-.204	0 %100
31	M37	X	.013	.013	0 %100
32	M37	Z	-.023	-.023	0 %100
33	M38	X	.013	.013	0 %100
34	M38	Z	-.023	-.023	0 %100
35	M39	X	.04	.04	0 %100
36	M39	Z	-.069	-.069	0 %100
37	M40	X	.04	.04	0 %100
38	M40	Z	-.069	-.069	0 %100
39	M42	X	.004	.004	0 %100
40	M42	Z	-.007	-.007	0 %100
41	M43	X	.052	.052	0 %100
42	M43	Z	-.09	-.09	0 %100
43	M44	X	.004	.004	0 %100
44	M44	Z	-.007	-.007	0 %100
45	M45	X	.052	.052	0 %100
46	M45	Z	-.09	-.09	0 %100
47	M46	X	.009	.009	0 %100
48	M46	Z	-.016	-.016	0 %100
49	M47	X	.118	.118	0 %100
50	M47	Z	-.204	-.204	0 %100
51	M48	X	.009	.009	0 %100
52	M48	Z	-.016	-.016	0 %100
53	M49	X	.118	.118	0 %100
54	M49	Z	-.204	-.204	0 %100
55	M45A	X	.066	.066	0 %100
56	M45A	Z	-.114	-.114	0 %100
57	M46A	X	.056	.056	0 %100
58	M46A	Z	-.097	-.097	0 %100
59	M47A	X	.056	.056	0 %100
60	M47A	Z	-.097	-.097	0 %100
61	M48A	X	.066	.066	0 %100
62	M48A	Z	-.114	-.114	0 %100
63	M49A	X	.066	.066	0 %100
64	M49A	Z	-.114	-.114	0 %100
65	M50	X	.065	.065	0 %100
66	M50	Z	-.113	-.113	0 %100
67	M51	X	.065	.065	0 %100



Member Distributed Loads (BLC 66 : Structure Wm (30 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
68	M51	Z	-.113	-.113	0	%100
69	M52	X	.066	.066	0	%100
70	M52	Z	-.114	-.114	0	%100
71	M53	X	.327	.327	0	%100
72	M53	Z	-.567	-.567	0	%100
73	M54	X	.327	.327	0	%100
74	M54	Z	-.567	-.567	0	%100
75	M46B	X	.079	.079	0	%100
76	M46B	Z	-.137	-.137	0	%100
77	M47B	X	.334	.334	0	%100
78	M47B	Z	-.578	-.578	0	%100
79	MP2A	X	.251	.251	0	%100
80	MP2A	Z	-.434	-.434	0	%100
81	MP3A	X	.251	.251	0	%100
82	MP3A	Z	-.434	-.434	0	%100
83	MP4A	X	.251	.251	0	%100
84	MP4A	Z	-.434	-.434	0	%100
85	MP5A	X	.251	.251	0	%100
86	MP5A	Z	-.434	-.434	0	%100
87	M62	X	.042	.042	0	%100
88	M62	Z	-.073	-.073	0	%100
89	M63	X	.25	.25	0	%100
90	M63	Z	-.432	-.432	0	%100
91	M64	X	.077	.077	0	%100
92	M64	Z	-.133	-.133	0	%100
93	M65	X	.439	.439	0	%100
94	M65	Z	-.761	-.761	0	%100
95	M66	X	.124	.124	0	%100
96	M66	Z	-.214	-.214	0	%100
97	M67	X	.439	.439	0	%100
98	M67	Z	-.761	-.761	0	%100
99	M68	X	.227	.227	0	%100
100	M68	Z	-.394	-.394	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.108	.108	0	%100
2	M1	Z	-.063	-.063	0	%100
3	M2	X	.108	.108	0	%100
4	M2	Z	-.063	-.063	0	%100
5	MP1A	X	.434	.434	0	%100
6	MP1A	Z	-.251	-.251	0	%100
7	M17	X	.069	.069	0	%100
8	M17	Z	-.04	-.04	0	%100
9	M18	X	.069	.069	0	%100
10	M18	Z	-.04	-.04	0	%100
11	M21A	X	.023	.023	0	%100
12	M21A	Z	-.013	-.013	0	%100
13	M22A	X	.023	.023	0	%100
14	M22A	Z	-.013	-.013	0	%100
15	M22	X	.006	.006	0	%100
16	M22	Z	-.003	-.003	0	%100
17	M23	X	.089	.089	0	%100
18	M23	Z	-.051	-.051	0	%100
19	M24	X	.006	.006	0	%100
20	M24	Z	-.003	-.003	0	%100



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Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
21	M25	X	.089	.089	0 %100
22	M25	Z	-.051	-.051	0 %100
23	M26	X	.013	.013	0 %100
24	M26	Z	-.008	-.008	0 %100
25	M27	X	.201	.201	0 %100
26	M27	Z	-.116	-.116	0 %100
27	M28	X	.013	.013	0 %100
28	M28	Z	-.008	-.008	0 %100
29	M29	X	.201	.201	0 %100
30	M29	Z	-.116	-.116	0 %100
31	M37	X	.069	.069	0 %100
32	M37	Z	-.04	-.04	0 %100
33	M38	X	.069	.069	0 %100
34	M38	Z	-.04	-.04	0 %100
35	M39	X	.023	.023	0 %100
36	M39	Z	-.013	-.013	0 %100
37	M40	X	.023	.023	0 %100
38	M40	Z	-.013	-.013	0 %100
39	M42	X	.006	.006	0 %100
40	M42	Z	-.003	-.003	0 %100
41	M43	X	.089	.089	0 %100
42	M43	Z	-.051	-.051	0 %100
43	M44	X	.006	.006	0 %100
44	M44	Z	-.003	-.003	0 %100
45	M45	X	.089	.089	0 %100
46	M45	Z	-.051	-.051	0 %100
47	M46	X	.013	.013	0 %100
48	M46	Z	-.008	-.008	0 %100
49	M47	X	.201	.201	0 %100
50	M47	Z	-.116	-.116	0 %100
51	M48	X	.013	.013	0 %100
52	M48	Z	-.008	-.008	0 %100
53	M49	X	.201	.201	0 %100
54	M49	Z	-.116	-.116	0 %100
55	M45A	X	.114	.114	0 %100
56	M45A	Z	-.066	-.066	0 %100
57	M46A	X	.097	.097	0 %100
58	M46A	Z	-.056	-.056	0 %100
59	M47A	X	.097	.097	0 %100
60	M47A	Z	-.056	-.056	0 %100
61	M48A	X	.114	.114	0 %100
62	M48A	Z	-.066	-.066	0 %100
63	M49A	X	.114	.114	0 %100
64	M49A	Z	-.066	-.066	0 %100
65	M50	X	.113	.113	0 %100
66	M50	Z	-.065	-.065	0 %100
67	M51	X	.113	.113	0 %100
68	M51	Z	-.065	-.065	0 %100
69	M52	X	.114	.114	0 %100
70	M52	Z	-.066	-.066	0 %100
71	M53	X	.567	.567	0 %100
72	M53	Z	-.327	-.327	0 %100
73	M54	X	.567	.567	0 %100
74	M54	Z	-.327	-.327	0 %100
75	M46B	X	.148	.148	0 %100
76	M46B	Z	-.085	-.085	0 %100
77	M47B	X	.673	.673	0 %100



Member Distributed Loads (BLC 67 : Structure Wm (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
78	M47B	Z	-.388	-.388	0	%100
79	MP2A	X	.434	.434	0	%100
80	MP2A	Z	-.251	-.251	0	%100
81	MP3A	X	.434	.434	0	%100
82	MP3A	Z	-.251	-.251	0	%100
83	MP4A	X	.434	.434	0	%100
84	MP4A	Z	-.251	-.251	0	%100
85	MP5A	X	.434	.434	0	%100
86	MP5A	Z	-.251	-.251	0	%100
87	M62	X	.004	.004	0	%100
88	M62	Z	-.003	-.003	0	%100
89	M63	X	.346	.346	0	%100
90	M63	Z	-.2	-.2	0	%100
91	M64	X	.015	.015	0	%100
92	M64	Z	-.009	-.009	0	%100
93	M65	X	.585	.585	0	%100
94	M65	Z	-.338	-.338	0	%100
95	M66	X	.067	.067	0	%100
96	M66	Z	-.039	-.039	0	%100
97	M67	X	.569	.569	0	%100
98	M67	Z	-.328	-.328	0	%100
99	M68	X	.131	.131	0	%100
100	M68	Z	-.076	-.076	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	.501	.501	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	.105	.105	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	.105	.105	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	0	0	0	%100
15	M22	X	.054	.054	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	.054	.054	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	.054	.054	0	%100
20	M24	Z	0	0	0	%100
21	M25	X	.054	.054	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	.122	.122	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	.122	.122	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	.122	.122	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	.122	.122	0	%100
30	M29	Z	0	0	0	%100



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Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
31	M37	X	.105	.105	0 %100
32	M37	Z	0	0	0 %100
33	M38	X	.105	.105	0 %100
34	M38	Z	0	0	0 %100
35	M39	X	0	0	0 %100
36	M39	Z	0	0	0 %100
37	M40	X	0	0	0 %100
38	M40	Z	0	0	0 %100
39	M42	X	.054	.054	0 %100
40	M42	Z	0	0	0 %100
41	M43	X	.054	.054	0 %100
42	M43	Z	0	0	0 %100
43	M44	X	.054	.054	0 %100
44	M44	Z	0	0	0 %100
45	M45	X	.054	.054	0 %100
46	M45	Z	0	0	0 %100
47	M46	X	.122	.122	0 %100
48	M46	Z	0	0	0 %100
49	M47	X	.122	.122	0 %100
50	M47	Z	0	0	0 %100
51	M48	X	.122	.122	0 %100
52	M48	Z	0	0	0 %100
53	M49	X	.122	.122	0 %100
54	M49	Z	0	0	0 %100
55	M45A	X	.132	.132	0 %100
56	M45A	Z	0	0	0 %100
57	M46A	X	.121	.121	0 %100
58	M46A	Z	0	0	0 %100
59	M47A	X	.121	.121	0 %100
60	M47A	Z	0	0	0 %100
61	M48A	X	.132	.132	0 %100
62	M48A	Z	0	0	0 %100
63	M49A	X	.132	.132	0 %100
64	M49A	Z	0	0	0 %100
65	M50	X	.121	.121	0 %100
66	M50	Z	0	0	0 %100
67	M51	X	.121	.121	0 %100
68	M51	Z	0	0	0 %100
69	M52	X	.132	.132	0 %100
70	M52	Z	0	0	0 %100
71	M53	X	.654	.654	0 %100
72	M53	Z	0	0	0 %100
73	M54	X	.654	.654	0 %100
74	M54	Z	0	0	0 %100
75	M46B	X	.478	.478	0 %100
76	M46B	Z	0	0	0 %100
77	M47B	X	.571	.571	0 %100
78	M47B	Z	0	0	0 %100
79	MP2A	X	.501	.501	0 %100
80	MP2A	Z	0	0	0 %100
81	MP3A	X	.501	.501	0 %100
82	MP3A	Z	0	0	0 %100
83	MP4A	X	.501	.501	0 %100
84	MP4A	Z	0	0	0 %100
85	MP5A	X	.501	.501	0 %100
86	MP5A	Z	0	0	0 %100
87	M62	X	.171	.171	0 %100



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Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
88	M62	Z	0	0	0	%100
89	M63	X	.151	.151	0	%100
90	M63	Z	0	0	0	%100
91	M64	X	.297	.297	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	.24	.24	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	.307	.307	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	.249	.249	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.108	.108	0	%100
2	M1	Z	.063	.063	0	%100
3	M2	X	.108	.108	0	%100
4	M2	Z	.063	.063	0	%100
5	MP1A	X	.434	.434	0	%100
6	MP1A	Z	.251	.251	0	%100
7	M17	X	.069	.069	0	%100
8	M17	Z	.04	.04	0	%100
9	M18	X	.069	.069	0	%100
10	M18	Z	.04	.04	0	%100
11	M21A	X	.023	.023	0	%100
12	M21A	Z	.013	.013	0	%100
13	M22A	X	.023	.023	0	%100
14	M22A	Z	.013	.013	0	%100
15	M22	X	.089	.089	0	%100
16	M22	Z	.051	.051	0	%100
17	M23	X	.006	.006	0	%100
18	M23	Z	.003	.003	0	%100
19	M24	X	.089	.089	0	%100
20	M24	Z	.051	.051	0	%100
21	M25	X	.006	.006	0	%100
22	M25	Z	.003	.003	0	%100
23	M26	X	.201	.201	0	%100
24	M26	Z	.116	.116	0	%100
25	M27	X	.013	.013	0	%100
26	M27	Z	.008	.008	0	%100
27	M28	X	.201	.201	0	%100
28	M28	Z	.116	.116	0	%100
29	M29	X	.013	.013	0	%100
30	M29	Z	.008	.008	0	%100
31	M37	X	.069	.069	0	%100
32	M37	Z	.04	.04	0	%100
33	M38	X	.069	.069	0	%100
34	M38	Z	.04	.04	0	%100
35	M39	X	.023	.023	0	%100
36	M39	Z	.013	.013	0	%100
37	M40	X	.023	.023	0	%100
38	M40	Z	.013	.013	0	%100
39	M42	X	.089	.089	0	%100
40	M42	Z	.051	.051	0	%100



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Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	M43	X	.006	.006	0	%100
42	M43	Z	.003	.003	0	%100
43	M44	X	.089	.089	0	%100
44	M44	Z	.051	.051	0	%100
45	M45	X	.006	.006	0	%100
46	M45	Z	.003	.003	0	%100
47	M46	X	.201	.201	0	%100
48	M46	Z	.116	.116	0	%100
49	M47	X	.013	.013	0	%100
50	M47	Z	.008	.008	0	%100
51	M48	X	.201	.201	0	%100
52	M48	Z	.116	.116	0	%100
53	M49	X	.013	.013	0	%100
54	M49	Z	.008	.008	0	%100
55	M45A	X	.114	.114	0	%100
56	M45A	Z	.066	.066	0	%100
57	M46A	X	.113	.113	0	%100
58	M46A	Z	.065	.065	0	%100
59	M47A	X	.113	.113	0	%100
60	M47A	Z	.065	.065	0	%100
61	M48A	X	.114	.114	0	%100
62	M48A	Z	.066	.066	0	%100
63	M49A	X	.114	.114	0	%100
64	M49A	Z	.066	.066	0	%100
65	M50	X	.097	.097	0	%100
66	M50	Z	.056	.056	0	%100
67	M51	X	.097	.097	0	%100
68	M51	Z	.056	.056	0	%100
69	M52	X	.114	.114	0	%100
70	M52	Z	.066	.066	0	%100
71	M53	X	.567	.567	0	%100
72	M53	Z	.327	.327	0	%100
73	M54	X	.567	.567	0	%100
74	M54	Z	.327	.327	0	%100
75	M46B	X	.669	.669	0	%100
76	M46B	Z	.386	.386	0	%100
77	M47B	X	.221	.221	0	%100
78	M47B	Z	.128	.128	0	%100
79	MP2A	X	.434	.434	0	%100
80	MP2A	Z	.251	.251	0	%100
81	MP3A	X	.434	.434	0	%100
82	MP3A	Z	.251	.251	0	%100
83	MP4A	X	.434	.434	0	%100
84	MP4A	Z	.251	.251	0	%100
85	MP5A	X	.434	.434	0	%100
86	MP5A	Z	.251	.251	0	%100
87	M62	X	.361	.361	0	%100
88	M62	Z	.208	.208	0	%100
89	M63	X	.001	.001	0	%100
90	M63	Z	.00081	.00081	0	%100
91	M64	X	.617	.617	0	%100
92	M64	Z	.356	.356	0	%100
93	M65	X	.007	.007	0	%100
94	M65	Z	.004	.004	0	%100
95	M66	X	.613	.613	0	%100
96	M66	Z	.354	.354	0	%100
97	M67	X	.054	.054	0	%100



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Member Distributed Loads (BLC 69 : Structure Wm (120 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
98	M67	Z	.031	.031	0	%100
99	M68	X	.131	.131	0	%100
100	M68	Z	.076	.076	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.188	.188	0	%100
2	M1	Z	.325	.325	0	%100
3	M2	X	.188	.188	0	%100
4	M2	Z	.325	.325	0	%100
5	MP1A	X	.251	.251	0	%100
6	MP1A	Z	.434	.434	0	%100
7	M17	X	.013	.013	0	%100
8	M17	Z	.023	.023	0	%100
9	M18	X	.013	.013	0	%100
10	M18	Z	.023	.023	0	%100
11	M21A	X	.04	.04	0	%100
12	M21A	Z	.069	.069	0	%100
13	M22A	X	.04	.04	0	%100
14	M22A	Z	.069	.069	0	%100
15	M22	X	.052	.052	0	%100
16	M22	Z	.09	.09	0	%100
17	M23	X	.004	.004	0	%100
18	M23	Z	.007	.007	0	%100
19	M24	X	.052	.052	0	%100
20	M24	Z	.09	.09	0	%100
21	M25	X	.004	.004	0	%100
22	M25	Z	.007	.007	0	%100
23	M26	X	.118	.118	0	%100
24	M26	Z	.204	.204	0	%100
25	M27	X	.009	.009	0	%100
26	M27	Z	.016	.016	0	%100
27	M28	X	.118	.118	0	%100
28	M28	Z	.204	.204	0	%100
29	M29	X	.009	.009	0	%100
30	M29	Z	.016	.016	0	%100
31	M37	X	.013	.013	0	%100
32	M37	Z	.023	.023	0	%100
33	M38	X	.013	.013	0	%100
34	M38	Z	.023	.023	0	%100
35	M39	X	.04	.04	0	%100
36	M39	Z	.069	.069	0	%100
37	M40	X	.04	.04	0	%100
38	M40	Z	.069	.069	0	%100
39	M42	X	.052	.052	0	%100
40	M42	Z	.09	.09	0	%100
41	M43	X	.004	.004	0	%100
42	M43	Z	.007	.007	0	%100
43	M44	X	.052	.052	0	%100
44	M44	Z	.09	.09	0	%100
45	M45	X	.004	.004	0	%100
46	M45	Z	.007	.007	0	%100
47	M46	X	.118	.118	0	%100
48	M46	Z	.204	.204	0	%100
49	M47	X	.009	.009	0	%100
50	M47	Z	.016	.016	0	%100



Member Distributed Loads (BLC 70 : Structure Wm (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
51	M48	X	.118	.118	0	%100
52	M48	Z	.204	.204	0	%100
53	M49	X	.009	.009	0	%100
54	M49	Z	.016	.016	0	%100
55	M45A	X	.066	.066	0	%100
56	M45A	Z	.114	.114	0	%100
57	M46A	X	.065	.065	0	%100
58	M46A	Z	.113	.113	0	%100
59	M47A	X	.065	.065	0	%100
60	M47A	Z	.113	.113	0	%100
61	M48A	X	.066	.066	0	%100
62	M48A	Z	.114	.114	0	%100
63	M49A	X	.066	.066	0	%100
64	M49A	Z	.114	.114	0	%100
65	M50	X	.056	.056	0	%100
66	M50	Z	.097	.097	0	%100
67	M51	X	.056	.056	0	%100
68	M51	Z	.097	.097	0	%100
69	M52	X	.066	.066	0	%100
70	M52	Z	.114	.114	0	%100
71	M53	X	.327	.327	0	%100
72	M53	Z	.567	.567	0	%100
73	M54	X	.327	.327	0	%100
74	M54	Z	.567	.567	0	%100
75	M46B	X	.38	.38	0	%100
76	M46B	Z	.658	.658	0	%100
77	M47B	X	.073	.073	0	%100
78	M47B	Z	.126	.126	0	%100
79	MP2A	X	.251	.251	0	%100
80	MP2A	Z	.434	.434	0	%100
81	MP3A	X	.251	.251	0	%100
82	MP3A	Z	.434	.434	0	%100
83	MP4A	X	.251	.251	0	%100
84	MP4A	Z	.434	.434	0	%100
85	MP5A	X	.251	.251	0	%100
86	MP5A	Z	.434	.434	0	%100
87	M62	X	.248	.248	0	%100
88	M62	Z	.43	.43	0	%100
89	M63	X	.051	.051	0	%100
90	M63	Z	.088	.088	0	%100
91	M64	X	.424	.424	0	%100
92	M64	Z	.735	.735	0	%100
93	M65	X	.106	.106	0	%100
94	M65	Z	.183	.183	0	%100
95	M66	X	.439	.439	0	%100
96	M66	Z	.76	.76	0	%100
97	M67	X	.142	.142	0	%100
98	M67	Z	.246	.246	0	%100
99	M68	X	.227	.227	0	%100
100	M68	Z	.394	.394	0	%100

Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	.501	.501	0	%100
3	M2	X	0	0	0	%100



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Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	.501	.501	0 %100
5	MP1A	X	0	0	0 %100
6	MP1A	Z	.501	.501	0 %100
7	M17	X	0	0	0 %100
8	M17	Z	0	0	0 %100
9	M18	X	0	0	0 %100
10	M18	Z	0	0	0 %100
11	M21A	X	0	0	0 %100
12	M21A	Z	.105	.105	0 %100
13	M22A	X	0	0	0 %100
14	M22A	Z	.105	.105	0 %100
15	M22	X	0	0	0 %100
16	M22	Z	.057	.057	0 %100
17	M23	X	0	0	0 %100
18	M23	Z	.057	.057	0 %100
19	M24	X	0	0	0 %100
20	M24	Z	.057	.057	0 %100
21	M25	X	0	0	0 %100
22	M25	Z	.057	.057	0 %100
23	M26	X	0	0	0 %100
24	M26	Z	.129	.129	0 %100
25	M27	X	0	0	0 %100
26	M27	Z	.129	.129	0 %100
27	M28	X	0	0	0 %100
28	M28	Z	.129	.129	0 %100
29	M29	X	0	0	0 %100
30	M29	Z	.129	.129	0 %100
31	M37	X	0	0	0 %100
32	M37	Z	0	0	0 %100
33	M38	X	0	0	0 %100
34	M38	Z	0	0	0 %100
35	M39	X	0	0	0 %100
36	M39	Z	.105	.105	0 %100
37	M40	X	0	0	0 %100
38	M40	Z	.105	.105	0 %100
39	M42	X	0	0	0 %100
40	M42	Z	.057	.057	0 %100
41	M43	X	0	0	0 %100
42	M43	Z	.057	.057	0 %100
43	M44	X	0	0	0 %100
44	M44	Z	.057	.057	0 %100
45	M45	X	0	0	0 %100
46	M45	Z	.057	.057	0 %100
47	M46	X	0	0	0 %100
48	M46	Z	.129	.129	0 %100
49	M47	X	0	0	0 %100
50	M47	Z	.129	.129	0 %100
51	M48	X	0	0	0 %100
52	M48	Z	.129	.129	0 %100
53	M49	X	0	0	0 %100
54	M49	Z	.129	.129	0 %100
55	M45A	X	0	0	0 %100
56	M45A	Z	.132	.132	0 %100
57	M46A	X	0	0	0 %100
58	M46A	Z	.122	.122	0 %100
59	M47A	X	0	0	0 %100
60	M47A	Z	.122	.122	0 %100



Member Distributed Loads (BLC 71 : Structure Wm (180 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
61	M48A	X	0	0	0	%100
62	M48A	Z	.132	.132	0	%100
63	M49A	X	0	0	0	%100
64	M49A	Z	.132	.132	0	%100
65	M50	X	0	0	0	%100
66	M50	Z	.122	.122	0	%100
67	M51	X	0	0	0	%100
68	M51	Z	.122	.122	0	%100
69	M52	X	0	0	0	%100
70	M52	Z	.132	.132	0	%100
71	M53	X	0	0	0	%100
72	M53	Z	.654	.654	0	%100
73	M54	X	0	0	0	%100
74	M54	Z	.654	.654	0	%100
75	M46B	X	0	0	0	%100
76	M46B	Z	.453	.453	0	%100
77	M47B	X	0	0	0	%100
78	M47B	Z	.352	.352	0	%100
79	MP2A	X	0	0	0	%100
80	MP2A	Z	.501	.501	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	.501	.501	0	%100
83	MP4A	X	0	0	0	%100
84	MP4A	Z	.501	.501	0	%100
85	MP5A	X	0	0	0	%100
86	MP5A	Z	.501	.501	0	%100
87	M62	X	0	0	0	%100
88	M62	Z	.33	.33	0	%100
89	M63	X	0	0	0	%100
90	M63	Z	.35	.35	0	%100
91	M64	X	0	0	0	%100
92	M64	Z	.569	.569	0	%100
93	M65	X	0	0	0	%100
94	M65	Z	.647	.647	0	%100
95	M66	X	0	0	0	%100
96	M66	Z	.647	.647	0	%100
97	M67	X	0	0	0	%100
98	M67	Z	.692	.692	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	.607	.607	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.188	-.188	0	%100
2	M1	Z	.325	.325	0	%100
3	M2	X	-.188	-.188	0	%100
4	M2	Z	.325	.325	0	%100
5	MP1A	X	-.251	-.251	0	%100
6	MP1A	Z	.434	.434	0	%100
7	M17	X	-.013	-.013	0	%100
8	M17	Z	.023	.023	0	%100
9	M18	X	-.013	-.013	0	%100
10	M18	Z	.023	.023	0	%100
11	M21A	X	-.04	-.04	0	%100
12	M21A	Z	.069	.069	0	%100
13	M22A	X	-.04	-.04	0	%100



Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
14	M22A	Z	.069	.069	0	%100
15	M22	X	-.004	-.004	0	%100
16	M22	Z	.007	.007	0	%100
17	M23	X	-.052	-.052	0	%100
18	M23	Z	.09	.09	0	%100
19	M24	X	-.004	-.004	0	%100
20	M24	Z	.007	.007	0	%100
21	M25	X	-.052	-.052	0	%100
22	M25	Z	.09	.09	0	%100
23	M26	X	-.009	-.009	0	%100
24	M26	Z	.016	.016	0	%100
25	M27	X	-.118	-.118	0	%100
26	M27	Z	.204	.204	0	%100
27	M28	X	-.009	-.009	0	%100
28	M28	Z	.016	.016	0	%100
29	M29	X	-.118	-.118	0	%100
30	M29	Z	.204	.204	0	%100
31	M37	X	-.013	-.013	0	%100
32	M37	Z	.023	.023	0	%100
33	M38	X	-.013	-.013	0	%100
34	M38	Z	.023	.023	0	%100
35	M39	X	-.04	-.04	0	%100
36	M39	Z	.069	.069	0	%100
37	M40	X	-.04	-.04	0	%100
38	M40	Z	.069	.069	0	%100
39	M42	X	-.004	-.004	0	%100
40	M42	Z	.007	.007	0	%100
41	M43	X	-.052	-.052	0	%100
42	M43	Z	.09	.09	0	%100
43	M44	X	-.004	-.004	0	%100
44	M44	Z	.007	.007	0	%100
45	M45	X	-.052	-.052	0	%100
46	M45	Z	.09	.09	0	%100
47	M46	X	-.009	-.009	0	%100
48	M46	Z	.016	.016	0	%100
49	M47	X	-.118	-.118	0	%100
50	M47	Z	.204	.204	0	%100
51	M48	X	-.009	-.009	0	%100
52	M48	Z	.016	.016	0	%100
53	M49	X	-.118	-.118	0	%100
54	M49	Z	.204	.204	0	%100
55	M45A	X	-.066	-.066	0	%100
56	M45A	Z	.114	.114	0	%100
57	M46A	X	-.056	-.056	0	%100
58	M46A	Z	.097	.097	0	%100
59	M47A	X	-.056	-.056	0	%100
60	M47A	Z	.097	.097	0	%100
61	M48A	X	-.066	-.066	0	%100
62	M48A	Z	.114	.114	0	%100
63	M49A	X	-.066	-.066	0	%100
64	M49A	Z	.114	.114	0	%100
65	M50	X	-.065	-.065	0	%100
66	M50	Z	.113	.113	0	%100
67	M51	X	-.065	-.065	0	%100
68	M51	Z	.113	.113	0	%100
69	M52	X	-.066	-.066	0	%100
70	M52	Z	.114	.114	0	%100



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Member Distributed Loads (BLC 72 : Structure Wm (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	M53	X	-.327	-.327	0	%100
72	M53	Z	.567	.567	0	%100
73	M54	X	-.327	-.327	0	%100
74	M54	Z	.567	.567	0	%100
75	M46B	X	-.079	-.079	0	%100
76	M46B	Z	.137	.137	0	%100
77	M47B	X	-.334	-.334	0	%100
78	M47B	Z	.578	.578	0	%100
79	MP2A	X	-.251	-.251	0	%100
80	MP2A	Z	.434	.434	0	%100
81	MP3A	X	-.251	-.251	0	%100
82	MP3A	Z	.434	.434	0	%100
83	MP4A	X	-.251	-.251	0	%100
84	MP4A	Z	.434	.434	0	%100
85	MP5A	X	-.251	-.251	0	%100
86	MP5A	Z	.434	.434	0	%100
87	M62	X	-.042	-.042	0	%100
88	M62	Z	.073	.073	0	%100
89	M63	X	-.25	-.25	0	%100
90	M63	Z	.432	.432	0	%100
91	M64	X	-.077	-.077	0	%100
92	M64	Z	.133	.133	0	%100
93	M65	X	-.439	-.439	0	%100
94	M65	Z	.761	.761	0	%100
95	M66	X	-.124	-.124	0	%100
96	M66	Z	.214	.214	0	%100
97	M67	X	-.439	-.439	0	%100
98	M67	Z	.761	.761	0	%100
99	M68	X	-.227	-.227	0	%100
100	M68	Z	.394	.394	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.108	-.108	0	%100
2	M1	Z	.063	.063	0	%100
3	M2	X	-.108	-.108	0	%100
4	M2	Z	.063	.063	0	%100
5	MP1A	X	-.434	-.434	0	%100
6	MP1A	Z	.251	.251	0	%100
7	M17	X	-.069	-.069	0	%100
8	M17	Z	.04	.04	0	%100
9	M18	X	-.069	-.069	0	%100
10	M18	Z	.04	.04	0	%100
11	M21A	X	-.023	-.023	0	%100
12	M21A	Z	.013	.013	0	%100
13	M22A	X	-.023	-.023	0	%100
14	M22A	Z	.013	.013	0	%100
15	M22	X	-.006	-.006	0	%100
16	M22	Z	.003	.003	0	%100
17	M23	X	-.089	-.089	0	%100
18	M23	Z	.051	.051	0	%100
19	M24	X	-.006	-.006	0	%100
20	M24	Z	.003	.003	0	%100
21	M25	X	-.089	-.089	0	%100
22	M25	Z	.051	.051	0	%100
23	M26	X	-.013	-.013	0	%100



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Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
24	M26	Z	.008	.008	0	%100
25	M27	X	-.201	-.201	0	%100
26	M27	Z	.116	.116	0	%100
27	M28	X	-.013	-.013	0	%100
28	M28	Z	.008	.008	0	%100
29	M29	X	-.201	-.201	0	%100
30	M29	Z	.116	.116	0	%100
31	M37	X	-.069	-.069	0	%100
32	M37	Z	.04	.04	0	%100
33	M38	X	-.069	-.069	0	%100
34	M38	Z	.04	.04	0	%100
35	M39	X	-.023	-.023	0	%100
36	M39	Z	.013	.013	0	%100
37	M40	X	-.023	-.023	0	%100
38	M40	Z	.013	.013	0	%100
39	M42	X	-.006	-.006	0	%100
40	M42	Z	.003	.003	0	%100
41	M43	X	-.089	-.089	0	%100
42	M43	Z	.051	.051	0	%100
43	M44	X	-.006	-.006	0	%100
44	M44	Z	.003	.003	0	%100
45	M45	X	-.089	-.089	0	%100
46	M45	Z	.051	.051	0	%100
47	M46	X	-.013	-.013	0	%100
48	M46	Z	.008	.008	0	%100
49	M47	X	-.201	-.201	0	%100
50	M47	Z	.116	.116	0	%100
51	M48	X	-.013	-.013	0	%100
52	M48	Z	.008	.008	0	%100
53	M49	X	-.201	-.201	0	%100
54	M49	Z	.116	.116	0	%100
55	M45A	X	-.114	-.114	0	%100
56	M45A	Z	.066	.066	0	%100
57	M46A	X	-.097	-.097	0	%100
58	M46A	Z	.056	.056	0	%100
59	M47A	X	-.097	-.097	0	%100
60	M47A	Z	.056	.056	0	%100
61	M48A	X	-.114	-.114	0	%100
62	M48A	Z	.066	.066	0	%100
63	M49A	X	-.114	-.114	0	%100
64	M49A	Z	.066	.066	0	%100
65	M50	X	-.113	-.113	0	%100
66	M50	Z	.065	.065	0	%100
67	M51	X	-.113	-.113	0	%100
68	M51	Z	.065	.065	0	%100
69	M52	X	-.114	-.114	0	%100
70	M52	Z	.066	.066	0	%100
71	M53	X	-.567	-.567	0	%100
72	M53	Z	.327	.327	0	%100
73	M54	X	-.567	-.567	0	%100
74	M54	Z	.327	.327	0	%100
75	M46B	X	-.148	-.148	0	%100
76	M46B	Z	.085	.085	0	%100
77	M47B	X	-.673	-.673	0	%100
78	M47B	Z	.388	.388	0	%100
79	MP2A	X	-.434	-.434	0	%100
80	MP2A	Z	.251	.251	0	%100



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Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
81	MP3A	X	-.434	-.434	0	%100
82	MP3A	Z	.251	.251	0	%100
83	MP4A	X	-.434	-.434	0	%100
84	MP4A	Z	.251	.251	0	%100
85	MP5A	X	-.434	-.434	0	%100
86	MP5A	Z	.251	.251	0	%100
87	M62	X	-.004	-.004	0	%100
88	M62	Z	.003	.003	0	%100
89	M63	X	-.346	-.346	0	%100
90	M63	Z	.2	.2	0	%100
91	M64	X	-.015	-.015	0	%100
92	M64	Z	.009	.009	0	%100
93	M65	X	-.585	-.585	0	%100
94	M65	Z	.338	.338	0	%100
95	M66	X	-.067	-.067	0	%100
96	M66	Z	.039	.039	0	%100
97	M67	X	-.569	-.569	0	%100
98	M67	Z	.328	.328	0	%100
99	M68	X	-.131	-.131	0	%100
100	M68	Z	.076	.076	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	MP1A	X	-.501	-.501	0	%100
6	MP1A	Z	0	0	0	%100
7	M17	X	-.105	-.105	0	%100
8	M17	Z	0	0	0	%100
9	M18	X	-.105	-.105	0	%100
10	M18	Z	0	0	0	%100
11	M21A	X	0	0	0	%100
12	M21A	Z	0	0	0	%100
13	M22A	X	0	0	0	%100
14	M22A	Z	0	0	0	%100
15	M22	X	-.054	-.054	0	%100
16	M22	Z	0	0	0	%100
17	M23	X	-.054	-.054	0	%100
18	M23	Z	0	0	0	%100
19	M24	X	-.054	-.054	0	%100
20	M24	Z	0	0	0	%100
21	M25	X	-.054	-.054	0	%100
22	M25	Z	0	0	0	%100
23	M26	X	-.122	-.122	0	%100
24	M26	Z	0	0	0	%100
25	M27	X	-.122	-.122	0	%100
26	M27	Z	0	0	0	%100
27	M28	X	-.122	-.122	0	%100
28	M28	Z	0	0	0	%100
29	M29	X	-.122	-.122	0	%100
30	M29	Z	0	0	0	%100
31	M37	X	-.105	-.105	0	%100
32	M37	Z	0	0	0	%100
33	M38	X	-.105	-.105	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
34	M38	Z	0	0	0	%100
35	M39	X	0	0	0	%100
36	M39	Z	0	0	0	%100
37	M40	X	0	0	0	%100
38	M40	Z	0	0	0	%100
39	M42	X	-0.054	-0.054	0	%100
40	M42	Z	0	0	0	%100
41	M43	X	-0.054	-0.054	0	%100
42	M43	Z	0	0	0	%100
43	M44	X	-0.054	-0.054	0	%100
44	M44	Z	0	0	0	%100
45	M45	X	-0.054	-0.054	0	%100
46	M45	Z	0	0	0	%100
47	M46	X	-0.122	-0.122	0	%100
48	M46	Z	0	0	0	%100
49	M47	X	-0.122	-0.122	0	%100
50	M47	Z	0	0	0	%100
51	M48	X	-0.122	-0.122	0	%100
52	M48	Z	0	0	0	%100
53	M49	X	-0.122	-0.122	0	%100
54	M49	Z	0	0	0	%100
55	M45A	X	-0.132	-0.132	0	%100
56	M45A	Z	0	0	0	%100
57	M46A	X	-0.121	-0.121	0	%100
58	M46A	Z	0	0	0	%100
59	M47A	X	-0.121	-0.121	0	%100
60	M47A	Z	0	0	0	%100
61	M48A	X	-0.132	-0.132	0	%100
62	M48A	Z	0	0	0	%100
63	M49A	X	-0.132	-0.132	0	%100
64	M49A	Z	0	0	0	%100
65	M50	X	-0.121	-0.121	0	%100
66	M50	Z	0	0	0	%100
67	M51	X	-0.121	-0.121	0	%100
68	M51	Z	0	0	0	%100
69	M52	X	-0.132	-0.132	0	%100
70	M52	Z	0	0	0	%100
71	M53	X	-0.654	-0.654	0	%100
72	M53	Z	0	0	0	%100
73	M54	X	-0.654	-0.654	0	%100
74	M54	Z	0	0	0	%100
75	M46B	X	-0.478	-0.478	0	%100
76	M46B	Z	0	0	0	%100
77	M47B	X	-0.571	-0.571	0	%100
78	M47B	Z	0	0	0	%100
79	MP2A	X	-0.501	-0.501	0	%100
80	MP2A	Z	0	0	0	%100
81	MP3A	X	-0.501	-0.501	0	%100
82	MP3A	Z	0	0	0	%100
83	MP4A	X	-0.501	-0.501	0	%100
84	MP4A	Z	0	0	0	%100
85	MP5A	X	-0.501	-0.501	0	%100
86	MP5A	Z	0	0	0	%100
87	M62	X	-0.171	-0.171	0	%100
88	M62	Z	0	0	0	%100
89	M63	X	-0.151	-0.151	0	%100
90	M63	Z	0	0	0	%100



Member Distributed Loads (BLC 74 : Structure Wm (270 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
91	M64	X	-.297	-.297	0	%100
92	M64	Z	0	0	0	%100
93	M65	X	-.24	-.24	0	%100
94	M65	Z	0	0	0	%100
95	M66	X	-.307	-.307	0	%100
96	M66	Z	0	0	0	%100
97	M67	X	-.249	-.249	0	%100
98	M67	Z	0	0	0	%100
99	M68	X	0	0	0	%100
100	M68	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.108	-.108	0	%100
2	M1	Z	-.063	-.063	0	%100
3	M2	X	-.108	-.108	0	%100
4	M2	Z	-.063	-.063	0	%100
5	MP1A	X	-.434	-.434	0	%100
6	MP1A	Z	-.251	-.251	0	%100
7	M17	X	-.069	-.069	0	%100
8	M17	Z	-.04	-.04	0	%100
9	M18	X	-.069	-.069	0	%100
10	M18	Z	-.04	-.04	0	%100
11	M21A	X	-.023	-.023	0	%100
12	M21A	Z	-.013	-.013	0	%100
13	M22A	X	-.023	-.023	0	%100
14	M22A	Z	-.013	-.013	0	%100
15	M22	X	-.089	-.089	0	%100
16	M22	Z	-.051	-.051	0	%100
17	M23	X	-.006	-.006	0	%100
18	M23	Z	-.003	-.003	0	%100
19	M24	X	-.089	-.089	0	%100
20	M24	Z	-.051	-.051	0	%100
21	M25	X	-.006	-.006	0	%100
22	M25	Z	-.003	-.003	0	%100
23	M26	X	-.201	-.201	0	%100
24	M26	Z	-.116	-.116	0	%100
25	M27	X	-.013	-.013	0	%100
26	M27	Z	-.008	-.008	0	%100
27	M28	X	-.201	-.201	0	%100
28	M28	Z	-.116	-.116	0	%100
29	M29	X	-.013	-.013	0	%100
30	M29	Z	-.008	-.008	0	%100
31	M37	X	-.069	-.069	0	%100
32	M37	Z	-.04	-.04	0	%100
33	M38	X	-.069	-.069	0	%100
34	M38	Z	-.04	-.04	0	%100
35	M39	X	-.023	-.023	0	%100
36	M39	Z	-.013	-.013	0	%100
37	M40	X	-.023	-.023	0	%100
38	M40	Z	-.013	-.013	0	%100
39	M42	X	-.089	-.089	0	%100
40	M42	Z	-.051	-.051	0	%100
41	M43	X	-.006	-.006	0	%100
42	M43	Z	-.003	-.003	0	%100
43	M44	X	-.089	-.089	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 75 : Structure Wm (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
44	M44	Z	-0.051	-0.051	0	%100
45	M45	X	-0.006	-0.006	0	%100
46	M45	Z	-0.003	-0.003	0	%100
47	M46	X	-0.201	-0.201	0	%100
48	M46	Z	-0.116	-0.116	0	%100
49	M47	X	-0.013	-0.013	0	%100
50	M47	Z	-0.008	-0.008	0	%100
51	M48	X	-0.201	-0.201	0	%100
52	M48	Z	-0.116	-0.116	0	%100
53	M49	X	-0.013	-0.013	0	%100
54	M49	Z	-0.008	-0.008	0	%100
55	M45A	X	-0.114	-0.114	0	%100
56	M45A	Z	-0.066	-0.066	0	%100
57	M46A	X	-0.113	-0.113	0	%100
58	M46A	Z	-0.065	-0.065	0	%100
59	M47A	X	-0.113	-0.113	0	%100
60	M47A	Z	-0.065	-0.065	0	%100
61	M48A	X	-0.114	-0.114	0	%100
62	M48A	Z	-0.066	-0.066	0	%100
63	M49A	X	-0.114	-0.114	0	%100
64	M49A	Z	-0.066	-0.066	0	%100
65	M50	X	-0.097	-0.097	0	%100
66	M50	Z	-0.056	-0.056	0	%100
67	M51	X	-0.097	-0.097	0	%100
68	M51	Z	-0.056	-0.056	0	%100
69	M52	X	-0.114	-0.114	0	%100
70	M52	Z	-0.066	-0.066	0	%100
71	M53	X	-0.567	-0.567	0	%100
72	M53	Z	-0.327	-0.327	0	%100
73	M54	X	-0.567	-0.567	0	%100
74	M54	Z	-0.327	-0.327	0	%100
75	M46B	X	-0.669	-0.669	0	%100
76	M46B	Z	-0.386	-0.386	0	%100
77	M47B	X	-0.221	-0.221	0	%100
78	M47B	Z	-0.128	-0.128	0	%100
79	MP2A	X	-0.434	-0.434	0	%100
80	MP2A	Z	-0.251	-0.251	0	%100
81	MP3A	X	-0.434	-0.434	0	%100
82	MP3A	Z	-0.251	-0.251	0	%100
83	MP4A	X	-0.434	-0.434	0	%100
84	MP4A	Z	-0.251	-0.251	0	%100
85	MP5A	X	-0.434	-0.434	0	%100
86	MP5A	Z	-0.251	-0.251	0	%100
87	M62	X	-0.361	-0.361	0	%100
88	M62	Z	-0.208	-0.208	0	%100
89	M63	X	-0.001	-0.001	0	%100
90	M63	Z	-0.00081	-0.00081	0	%100
91	M64	X	-0.617	-0.617	0	%100
92	M64	Z	-0.356	-0.356	0	%100
93	M65	X	-0.007	-0.007	0	%100
94	M65	Z	-0.004	-0.004	0	%100
95	M66	X	-0.613	-0.613	0	%100
96	M66	Z	-0.354	-0.354	0	%100
97	M67	X	-0.054	-0.054	0	%100
98	M67	Z	-0.031	-0.031	0	%100
99	M68	X	-0.131	-0.131	0	%100
100	M68	Z	-0.076	-0.076	0	%100



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-0.188	-0.188	0	%100
2	M1	Z	-0.325	-0.325	0	%100
3	M2	X	-0.188	-0.188	0	%100
4	M2	Z	-0.325	-0.325	0	%100
5	MP1A	X	-0.251	-0.251	0	%100
6	MP1A	Z	-0.434	-0.434	0	%100
7	M17	X	-0.013	-0.013	0	%100
8	M17	Z	-0.023	-0.023	0	%100
9	M18	X	-0.013	-0.013	0	%100
10	M18	Z	-0.023	-0.023	0	%100
11	M21A	X	-0.04	-0.04	0	%100
12	M21A	Z	-0.069	-0.069	0	%100
13	M22A	X	-0.04	-0.04	0	%100
14	M22A	Z	-0.069	-0.069	0	%100
15	M22	X	-0.052	-0.052	0	%100
16	M22	Z	-0.09	-0.09	0	%100
17	M23	X	-0.004	-0.004	0	%100
18	M23	Z	-0.007	-0.007	0	%100
19	M24	X	-0.052	-0.052	0	%100
20	M24	Z	-0.09	-0.09	0	%100
21	M25	X	-0.004	-0.004	0	%100
22	M25	Z	-0.007	-0.007	0	%100
23	M26	X	-0.118	-0.118	0	%100
24	M26	Z	-0.204	-0.204	0	%100
25	M27	X	-0.009	-0.009	0	%100
26	M27	Z	-0.016	-0.016	0	%100
27	M28	X	-0.118	-0.118	0	%100
28	M28	Z	-0.204	-0.204	0	%100
29	M29	X	-0.009	-0.009	0	%100
30	M29	Z	-0.016	-0.016	0	%100
31	M37	X	-0.013	-0.013	0	%100
32	M37	Z	-0.023	-0.023	0	%100
33	M38	X	-0.013	-0.013	0	%100
34	M38	Z	-0.023	-0.023	0	%100
35	M39	X	-0.04	-0.04	0	%100
36	M39	Z	-0.069	-0.069	0	%100
37	M40	X	-0.04	-0.04	0	%100
38	M40	Z	-0.069	-0.069	0	%100
39	M42	X	-0.052	-0.052	0	%100
40	M42	Z	-0.09	-0.09	0	%100
41	M43	X	-0.004	-0.004	0	%100
42	M43	Z	-0.007	-0.007	0	%100
43	M44	X	-0.052	-0.052	0	%100
44	M44	Z	-0.09	-0.09	0	%100
45	M45	X	-0.004	-0.004	0	%100
46	M45	Z	-0.007	-0.007	0	%100
47	M46	X	-0.118	-0.118	0	%100
48	M46	Z	-0.204	-0.204	0	%100
49	M47	X	-0.009	-0.009	0	%100
50	M47	Z	-0.016	-0.016	0	%100
51	M48	X	-0.118	-0.118	0	%100
52	M48	Z	-0.204	-0.204	0	%100
53	M49	X	-0.009	-0.009	0	%100
54	M49	Z	-0.016	-0.016	0	%100
55	M45A	X	-0.066	-0.066	0	%100
56	M45A	Z	-0.114	-0.114	0	%100
57	M46A	X	-0.065	-0.065	0	%100



Member Distributed Loads (BLC 76 : Structure Wm (330 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
58	M46A	Z	-.113	-.113	0	%100
59	M47A	X	-.065	-.065	0	%100
60	M47A	Z	-.113	-.113	0	%100
61	M48A	X	-.066	-.066	0	%100
62	M48A	Z	-.114	-.114	0	%100
63	M49A	X	-.066	-.066	0	%100
64	M49A	Z	-.114	-.114	0	%100
65	M50	X	-.056	-.056	0	%100
66	M50	Z	-.097	-.097	0	%100
67	M51	X	-.056	-.056	0	%100
68	M51	Z	-.097	-.097	0	%100
69	M52	X	-.066	-.066	0	%100
70	M52	Z	-.114	-.114	0	%100
71	M53	X	-.327	-.327	0	%100
72	M53	Z	-.567	-.567	0	%100
73	M54	X	-.327	-.327	0	%100
74	M54	Z	-.567	-.567	0	%100
75	M46B	X	-.38	-.38	0	%100
76	M46B	Z	-.658	-.658	0	%100
77	M47B	X	-.073	-.073	0	%100
78	M47B	Z	-.126	-.126	0	%100
79	MP2A	X	-.251	-.251	0	%100
80	MP2A	Z	-.434	-.434	0	%100
81	MP3A	X	-.251	-.251	0	%100
82	MP3A	Z	-.434	-.434	0	%100
83	MP4A	X	-.251	-.251	0	%100
84	MP4A	Z	-.434	-.434	0	%100
85	MP5A	X	-.251	-.251	0	%100
86	MP5A	Z	-.434	-.434	0	%100
87	M62	X	-.248	-.248	0	%100
88	M62	Z	-.43	-.43	0	%100
89	M63	X	-.051	-.051	0	%100
90	M63	Z	-.088	-.088	0	%100
91	M64	X	-.424	-.424	0	%100
92	M64	Z	-.735	-.735	0	%100
93	M65	X	-.106	-.106	0	%100
94	M65	Z	-.183	-.183	0	%100
95	M66	X	-.439	-.439	0	%100
96	M66	Z	-.76	-.76	0	%100
97	M67	X	-.142	-.142	0	%100
98	M67	Z	-.246	-.246	0	%100
99	M68	X	-.227	-.227	0	%100
100	M68	Z	-.394	-.394	0	%100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn
1	M1	PIPE_2.0	.752	2.875	3	.245	3	6830.97	32130	1.872	1.872	1..H1-1b
2	M2	PIPE_2.0	.843	11.25	3	.625	11.25	24572...	32130	1.872	1.872	1 H3-6
3	MP1A	PIPE_2.0	.890	2.479	3	.400	1.531	17855...	32130	1.872	1.872	2..H1-1b
4	M17	PL1/2x3.75	.177	0	3	.073	.208	59798...	60750	.633	4.746	1..H1-1b



Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)

Member	Shape	Code Check	Loc[ft]	LC	Shear	CheckLoc.....	LC	phi*Pn...	phi*Pn...	phi*Mn...	phi*Mn.....	Eqn	
5	M18	PL1/2x3.75	.161	.208	21	.156	.208 y	3	59798....	60750	.633	4.746	1...H1-1b
6	M21A	PL1/2x3.75	.220	0	18	.080	0 y	9	58342....	60750	.633	4.746	1...H1-1b
7	M22A	PL1/2x3.75	.454	0	9	.369	0 y	9	58342....	60750	.633	4.746	2...H1-1b
8	M22	PL1/2x3.75	.083	.083	8	.052	.083 y	9	60596....	60750	.633	4.746	1...H1-1b
9	M23	PL1/2x3.75	.310	0	9	.124	.083 y	9	60596....	60750	.633	4.746	1...H1-1b
10	M24	PL1/2x3.75	.135	0	39	.156	.083 y	27	60596....	60750	.633	4.746	1...H1-1b
11	M25	PL1/2x3.75	.210	0	21	.124	.083 y	3	60596....	60750	.633	4.746	1...H1-1b
12	M26	PIPE_1.25	.385	0	8	.132	1.196	17	18828....	19687.5	.801	.801	2...H1-1b
13	M27	PIPE_1.25	.786	1.335	9	.323	1.196	12	18828....	19687.5	.801	.801	1...H1-1b
14	M28	PIPE_1.25	.267	0	9	.207	0	29	18828....	19687.5	.801	.801	2...H1-1b
15	M29	PIPE_1.25	.630	0	3	.321	.139	2	18828....	19687.5	.801	.801	1...H1-1b
16	M37	PL1/2x3.75	.237	.208	6	.131	0 y	11	59798....	60750	.633	4.746	1...H1-1b
17	M38	PL1/2x3.75	.232	0	5	.159	.208 y	3	59798....	60750	.633	4.746	1...H1-1b
18	M39	PL1/2x3.75	.235	0	5	.057	.333 y	9	58342....	60750	.633	4.746	1...H1-1b
19	M40	PL1/2x3.75	.487	0	9	.384	.333 y	9	58342....	60750	.633	4.746	1...H1-1b
20	M42	PL1/2x3.75	.096	.083	5	.049	0 y	9	60596....	60750	.633	4.746	1...H1-1b
21	M43	PL1/2x3.75	.296	0	9	.132	0 y	21	60596....	60750	.633	4.746	1...H1-1b
22	M44	PL1/2x3.75	.218	0	6	.179	0 y	30	60596....	60750	.633	4.746	1...H1-1b
23	M45	PL1/2x3.75	.286	0	9	.144	.083 y	3	60596....	60750	.633	4.746	1...H1-1b
24	M46	PIPE_1.25	.247	0	6	.080	0	17	18828....	19687.5	.801	.801	1...H1-1b
25	M47	PIPE_1.25	.849	1.335	9	.206	0	12	18828....	19687.5	.801	.801	1...H1-1b
26	M48	PIPE_1.25	.228	1.238	6	.175	1.238	8	18828....	19687.5	.801	.801	1...H1-1b
27	M49	PIPE_1.25	.613	0	3	.240	1.335	2	18828....	19687.5	.801	.801	1...H1-1b
28	M45A	SR_0.625...	.198	2.5	2	.034	0	9	3836.9...	9940.19	.104	.104	1...H1-1b*
29	M46A	SR_0.625...	.091	2.728	5	.018	2.728	12	3222.9...	9940.19	.104	.104	1...H1-1b*
30	M47A	SR_0.625...	.015	0	12	.022	2.728	8	3222.9...	9940.19	.104	.104	1...H1-1b*
31	M48A	SR_0.625...	.035	1.25	5	.013	0	18	3836.9...	9940.19	.104	.104	1...H1-1b
32	M49A	SR_0.625...	.205	2.266	2	.015	0	20	3836.9...	9940.19	.104	.104	1...H1-1a
33	M50	SR_0.625...	.173	2.728	2	.013	2.728	7	3222.9...	9940.19	.104	.104	1...H1-1b*
34	M51	SR_0.625...	.182	0	12	.037	0	5	3222.9...	9940.19	.104	.104	1...H1-1b*
35	M52	SR_0.625...	.194	0	21	.048	0	3	3836.9...	9940.19	.104	.104	1...H1-1b*
36	M53	PIPE_3.0	.025	1.547	17	.052	1.547	9	55456....	65205	5.749	5.749	1...H1-1b
37	M54	PIPE_3.0	.127	1.547	9	.061	4.01	9	55456....	65205	5.749	5.749	3...H1-1b
38	M46B	L2.5x2.5x3	.166	2.222	3	.034	4.266 y	11	16119....	29192.4	.873	1.687	1...H2-1
39	M47B	L2.5x2.5x3	.081	1.914	9	.039	0 z	3	18097....	29192.4	.873	1.731	1...H2-1
40	MP2A	PIPE_2.0	.491	2.479	9	.344	1.531	3	17855....	32130	1.872	1.872	2...H3-6
41	MP3A	PIPE_2.0	.444	1.531	9	.208	1.531	9	17855....	32130	1.872	1.872	2...H1-1b
42	MP4A	PIPE_2.0	.414	2.5	3	.284	2.5	9	14916....	32130	1.872	1.872	3...H1-1b
43	MP5A	PIPE_2.0	.694	2.552	9	.292	1.531	9	17855....	32130	1.872	1.872	2...H1-1b
44	M62	PIPE_2.0	.190	0	9	.003	6.118	24	20512....	32130	1.872	1.872	1...H1-1b*
45	M63	PIPE_2.0	.318	3.193	3	.003	0	20	19295....	32130	1.872	1.872	1...H1-1a
46	M64	L2.5x2.5x4	.170	2.448	3	.009	0 z	11	17635....	38556	1.114	2.26	1...H2-1
47	M65	L2.5x2.5x4	.433	2.818	9	.013	5.52 y	2	14233....	38556	1.114	2.199	1...H2-1
48	M66	L2.5x2.5x4	.099	2.765	48	.018	5.529 y	9	14187....	38556	1.114	2.198	1...H2-1
49	M67	L2.5x2.5x4	.128	3.075	2	.018	6.15 y	2	11468....	38556	1.114	2.14	1...H2-1
50	M68	PIPE_2.5	.615	10.375	9	.275	10.75	9	15797.3	50715	3.596	3.596	2...H1-1b

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC		
1	N32	max	879.839	4	840.203	21	1276.87	2	.254	2	0	51	.504	9
2		min	-826.71	12	-359.582	2	-1785.103	9	-.617	9	0	1	-.373	2
3	N66	max	1792.809	12	959.466	21	2338.354	12	.302	2	0	51	.49	9
4		min	-2270.449	4	-422.587	2	-2479.007	5	-.673	21	0	1	-.437	2
5	N61	max	2003.175	9	1206.289	2	2138.287	2	0	6	.003	9	.006	9
6		min	-1711.364	3	-470.787	8	-809.805	8	0	12	-.003	3	-.006	3



Company : Maser Consulting
 Designer :
 Job Number : Project No. 10037848
 Model Name : 467746-VZW_MT_LOT_SectorA_H

Apr 14, 2021
 2:57 PM
 Checked By: _____

Envelope Joint Reactions (Continued)

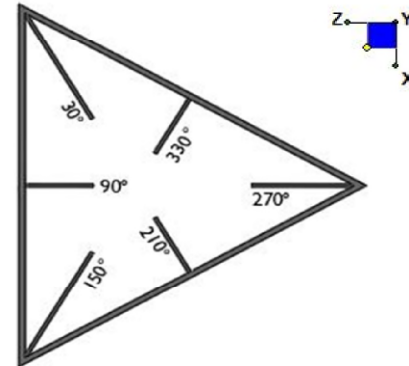
	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
7	N92	max	2665.773	3	28.377	15	2184.18	9	0	51	0	51	0	51
8		min	-3236.777	9	11.471	45	-2043.093	3	0	1	0	1	0	1
9	N92A	max	4909.002	3	38.741	9	3040.122	3	0	51	0	51	0	51
10		min	-4239.237	9	13.298	50	-2991.175	9	0	1	0	1	0	1
11	N92C	max	6551.03	9	170.833	3	2091.538	11	.001	39	0	9	.002	3
12		min	-6564.954	3	-334.771	11	-742.109	3	0	9	0	3	-.002	9
13	N95	max	2264.402	45	1091.103	39	-164.017	12	.001	39	.002	9	.003	3
14		min	-1511.575	2	157.968	12	-1849.955	39	0	12	-.002	3	-.003	9
15	Totals:	max	1692.647	11	2719.225	17	2709.099	1						
16		min	-1692.593	5	1198.842	3	-2709.107	7						



I. Mount-to-Tower Connection Check

RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N32	120
N66	120



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

d_x (in) (Delta X of typ. bolt config. sketch) :

d_y (in) (Delta Y of typ. bolt config. sketch) :

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

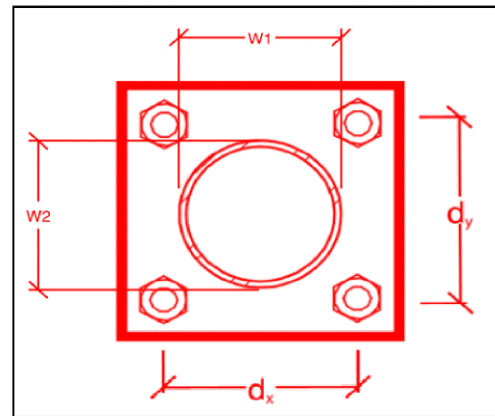
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
9.5
2.5
A307
0.5
9.2
1.5
6.4
3.8
36.1%*
9.9%



*Note: Tension reduction not required if tension or shear capacity < 30%

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide Maser Consulting the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- Any special photos outside of the standard requirements will be indicated on the drawings
- Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.
- Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.
- Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact Maser Consulting immediately.
- Each photo should be time and date stamped
- Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.
- Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.
- The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

- Base and “During Installation Photos”
 - Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
 - “During Installation Photos if provided - must be placed only in this folder
- Photos taken at ground level
 - Overall tower structure before and after installation of the modifications
 - Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- Photos taken at Mount Elevation
 - Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
 - These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
 - Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
 - Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
 - Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
 - Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
 - Photos showing the safety climb wire rope above and below the mount prior to modification.
 - Photos showing the climbing facility and safety climb if present.

Material Certification:

- Materials utilized must be as per specification on the drawings or the equivalent as validated by Maser Consulting.
 - If the drawings are as specified on the drawings
 - The contractor should provide the packing list or the materials utilized to perform the mount modification
 - If an equivalent is utilized
 - It is required that the Maser Consulting certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.
- The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the Maser Consulting Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials

The material utilized was an "equivalent" and included as part of the contractor submission is the TES certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

Name _____

Signature _____

Antenna & equipment placement and Geometry Confirmation:

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.

Certifying Individual: Company _____
 Name _____
 Signature _____


















Special Instructions / Validation as required from the MA or Mod Drawings:

Issue:

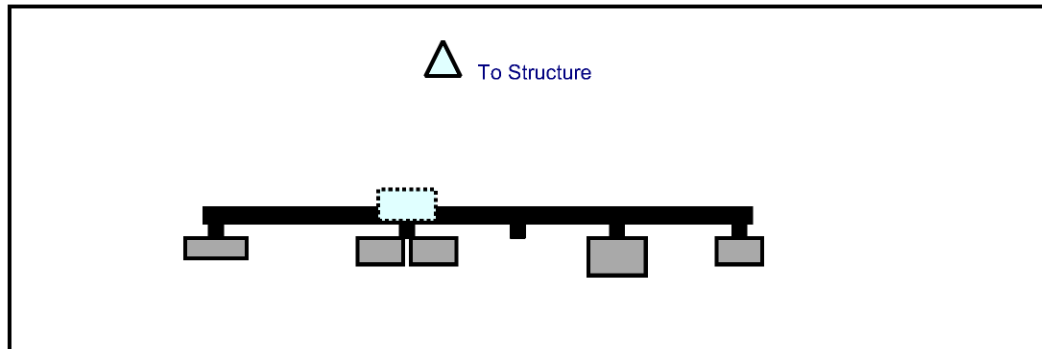
Relocate the existing OVPs to from the tower legs to the mounts. Install (1) OVP to each sectors' left standoff vertical pipe (Looking from tower-to-mount).

Response:

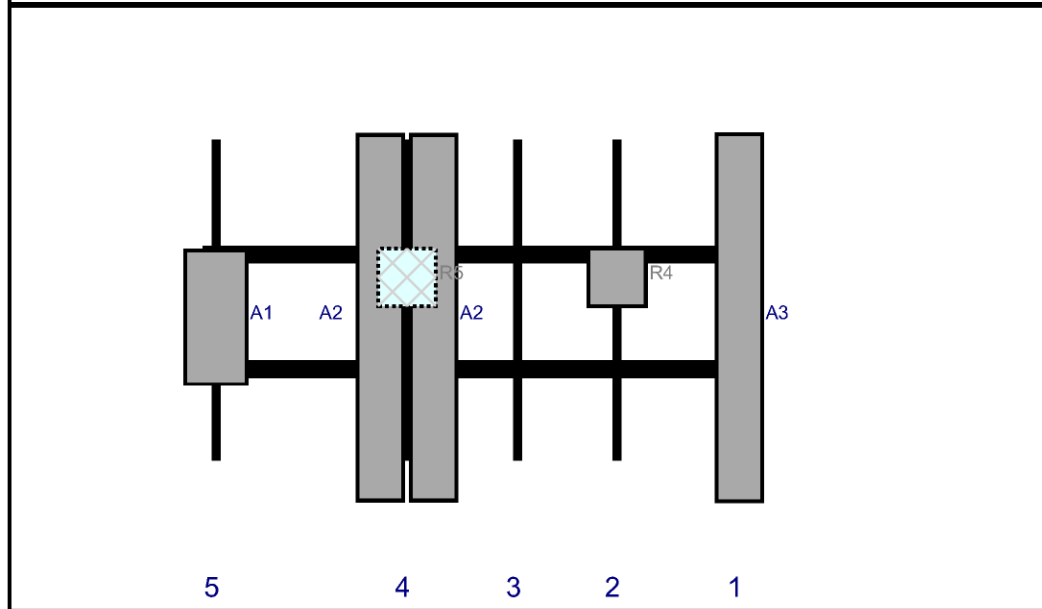
Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan View

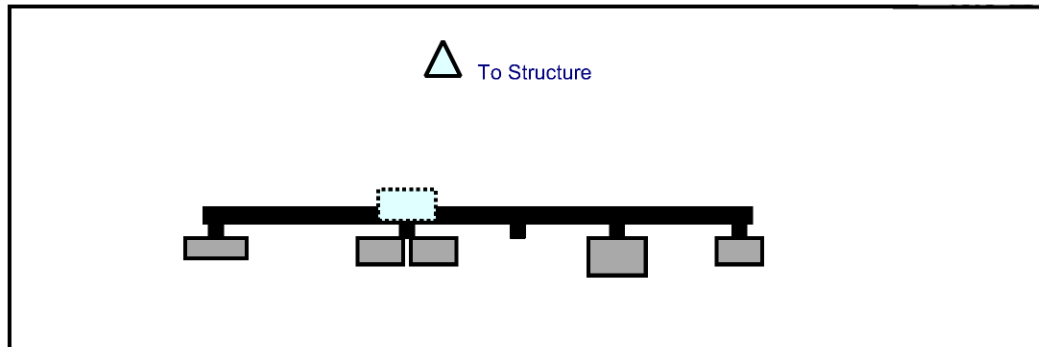


Front View
Looking at Structure

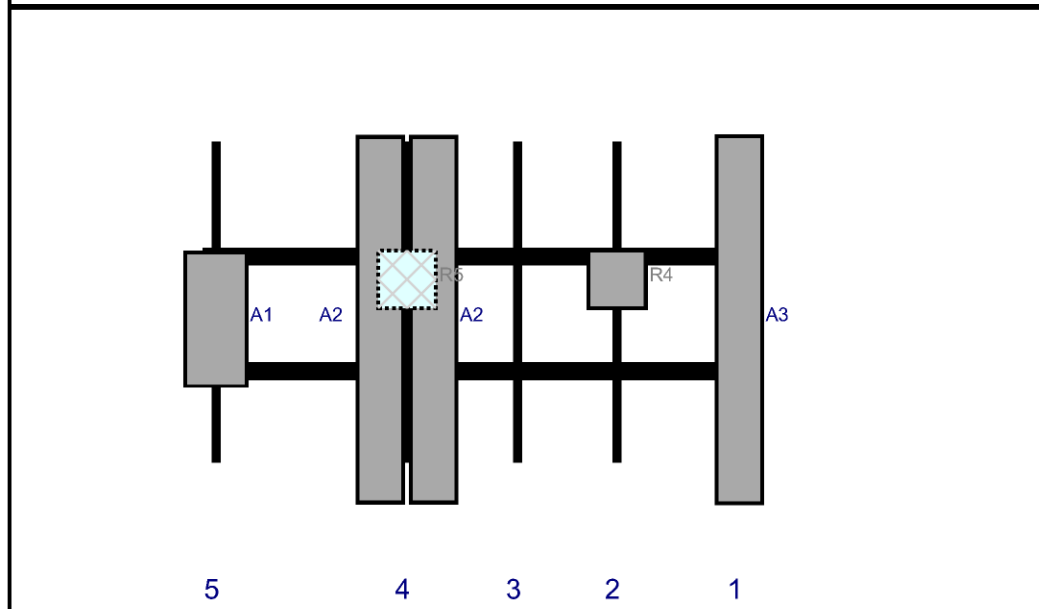


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LNX-6515DS-A1M	96.4	11.9	140.5	1	a	Front	46.5	0	Retained	02/21/2021
R4	B2/B66A RRH-BR049	15	15	108.5	2	a	Front	36	0	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	a	Front	46.5	7	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	b	Front	46.5	-7	Retained	02/21/2021
R5	B5/B13 RRH-BR04C	15	15	53.5	4	a	Behind	36	0	Retained	02/21/2021
A1	MT6407-77A	35.1	16.1	3.5	5	a	Front	46.5	0	Added	

Plan View

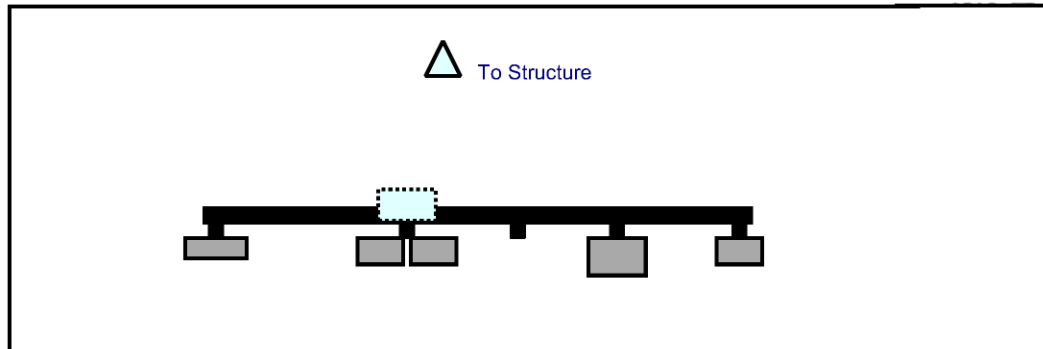


Front View
Looking at Structure

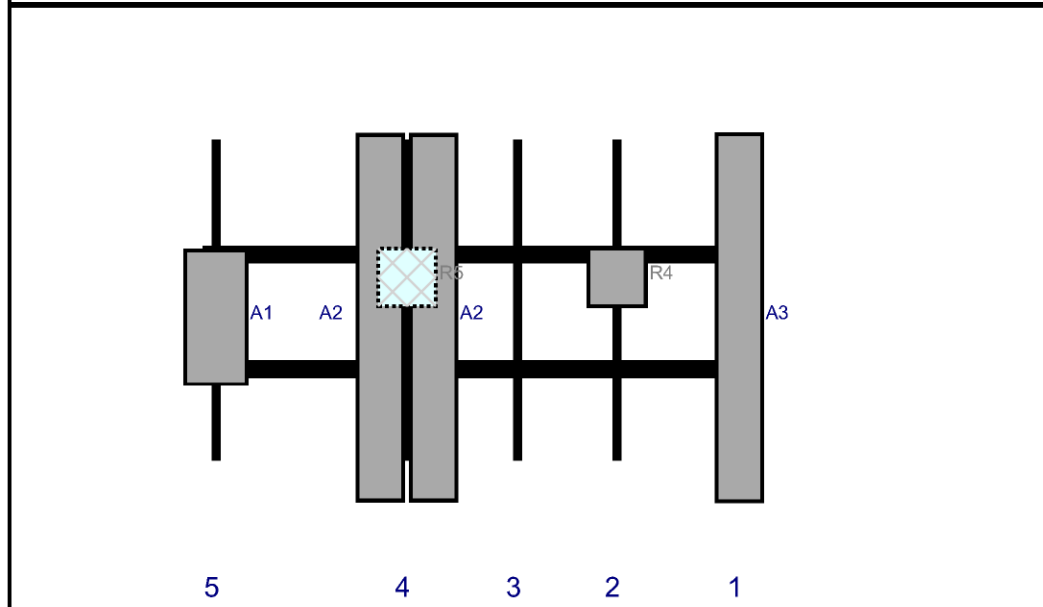


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LNx-6515DS-A1M	96.4	11.9	140.5	1	a	Front	46.5	0	Retained	02/21/2021
R4	B2/B66A RRH-BR049	15	15	108.5	2	a	Front	36	0	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	a	Front	46.5	7	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	b	Front	46.5	-7	Retained	02/21/2021
R5	B5/B13 RRH-BR04C	15	15	53.5	4	a	Behind	36	0	Retained	02/21/2021
A1	MT6407-77A	35.1	16.1	3.5	5	a	Front	46.5	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	MT6407-77A	35.1	16.1	3.5	5	a	Front	46.5	0	Added	
A3	LNx-6515DS-A1M	96.4	11.9	140.5	1	a	Front	46.5	0	Retained	02/21/2021
R4	B2/B66A RRH-BR049	15	15	108.5	2	a	Front	36	0	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	a	Front	46.5	7	Retained	02/21/2021
A2	NHH-65C-R2B	96	11.9	53.5	4	b	Front	46.5	-7	Retained	02/21/2021
R5	B5/B13 RRH-BR04C	15	15	53.5	4	a	Behind	36	0	Retained	02/21/2021

Maser Consulting Connecticut

Subject

TIA-222-H Usage

Site Information

Site ID: 467746-VZW / HIGGANUM SOUTH CT

Site Name: HIGGANUM SOUTH CT

Carrier Name: Verizon Wireless

Address: 330 Pokorny Rd
Haddam, Connecticut 06441
Middlesex County

Latitude: 41.44358333°

Longitude: -72.56636111°

Structure Information

Tower Type: Self-Support

Mount Type: 12.00-Ft Sector Frame

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,



Petros Tsoukalas, PE
Geographic Discipline Leader

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATORY AGENCIES, ORDINANCES, REGULATIONS, AND UTILITY COMPANIES OR OTHER PUBLIC GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIAL, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THE PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY IN WRITING PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF RADIO FREQUENCY ENERGY. THE CONTRACTOR SHALL SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).



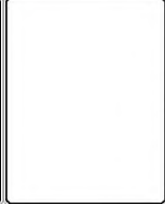
MOUNT MODIFICATION DRAWINGS EXISTING 12.00' SECTOR FRAME

**SITE NAME: HIGGANUM SOUTH CT
SITE NUMBER: 467746**

**330 POKORNY RD.
HADDAM, CT 06441
MIDDLESEX COUNTY**

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REV	DATE	DESCRIPTION	BY	CHK'D



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SITE NAME:
HIGGANUM SOUTH CT
467746
330 POKORNY RD.
HADDAM, CT 06441
MIDDLESEX COUNTY

MASER CONSULTING GROUP, INC.
330 POKORNY RD.
HADDAM, CT 06441
PHONE: (860) 797-9417
FAX: (860) 797-9418

TITLE SHEET

T-1

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
S-7	SPECIFICATION SHEETS

PROJECT INFORMATION

SITE INFORMATION	<p>LATITUDE: 41.465833° N</p> <p>LONGITUDE: 73.443811° W</p> <p>JURISDICTION: MIDDLESEX COUNTY</p>
APPLICANT/LESEE	VERIZON WIRELESS
COMPANY:	VERIZON WIRELESS
CLIENT REPRESENTATIVE	VERIZON WIRELESS
COMPANY:	VERIZON WIRELESS
ADDRESS:	VERIZON WIRELESS, THIRD FLOOR
CITY/STATE/ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDIELLO
EMAIL:	ANDREW.CANDELLO@VERIZONWIRELESS.COM
PROJECT MANAGER	MASER CONSULTING CONNECTICUT
CONTACT:	PETER ALBANO
PHONE:	(860) 797-9417
EMAIL:	PETER.ALBANO@COLLIERSENGINEERING.COM

REFERENCED DOCUMENTS

FAILING MOUNT ANALYSIS REPORT	10/31/14
SMART TOOL PROJECT #	467746
MASER CONSULTING PROJECT #	21777009A
ANALYSIS DATE	3/10/2021

CONTRACTOR PMI REQUIREMENTS

PHI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #	1003280
VZW LOCATION CODE (PLC)	467746
FUZE ID:	1627133

PHI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

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 ALL STATE LICENSING AND CERTIFICATION REQUIREMENTS MUST BE MET PRIOR TO ANY WORK BEING PERFORMED ON THIS PROJECT.

REV	DATE	DESCRIPTION	BY	CHK'D



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SITE NAME:
HIGGANCUM SOUTH CT
 467746
 330 POKORNY RD.
 HARTFORD, CT 06183
 MIDDLESEX COUNTY

NASSIMILLE COLLEGE
 5500 N. Rte. 67
 Hartford, CT 06183
 Phone: 860.234.8277
 Fax: 860.234.2466

MODIFICATION NOTES

S-2

PROTECT STEEL BY ANY OTHER MEANS
 14. ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING BEHAAS INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
 15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

DESIGN LOADS

- WIND LOADS**
- a. BASIC WIND SPEED (3 SECOND GUST), V = 121 MPH
 - b. EXPOSURE CATEGORY B
 - c. TOPOGRAPHIC CATEGORY 1
 - d. MEAN BASE ELEVATION (ABSL) = 658.97'
- ICE LOADS**
- a. ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
 - b. ICE THICKNESS = 1.00 IN
- SEISMIC LOADS**
- a. SEISMIC DESIGN CATEGORY B
 - b. SHORT TERM MCBR GROUND MOTION, S_s = 2.13
 - c. LONG TERM MCBR GROUND MOTION, S_l = .055

STRUCTURAL STEEL

- 1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN
 - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (GR 36)
 - PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A325
 - WELDING LOCK WASHERS LOCKING STRUCTURAL GRADE
- 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE NOTED. ESTIMATES OF COSTS (CREDITS ASSOCIATED WITH MATERIALS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK. ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, BEGANS PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANS/TIA 322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANS/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INTAKING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL HANDLING AND ERECT TO THE RIGHT ALL STRUCTURES FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANS/TIA 322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPAPIC, GRADING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS AND ALL DIMENSIONS INCLUDING BUT NOT LIMITED TO DEPTHS AND STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE POINT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

- 1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS
 - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
 - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
 - c. AISC CODE OF STANDARD PRACTICE
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN
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 - PIPE ASTM A53 (GR 35)
 - BOLTS ASTM A325
 - WELDING LOCK WASHERS LOCKING STRUCTURAL GRADE
- 3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT SHALL BE NOTED. ESTIMATES OF COSTS (CREDITS ASSOCIATED WITH MATERIALS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.

MODIFICATION INSPECTION NOTES

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
X	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	FOR APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
	CONSTRUCTION
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
	POST-CONSTRUCTION
X	MI INSPECTOR (REDLINE OR RECORD DRAWING(S))
X	VZV PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTOR (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS COMPLETED AS SHOWN ON THE MODIFICATION DRAWINGS AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGNED. NOTICES THE MI INSPECTOR TAKE TO CORRECT OR IMPROVE THE MODIFICATION SHALL BE SUBMITTED TO THE ORIGINAL MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY REMAINS WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR COORDINATE AND COMMUNICATE AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

MI INSPECTOR

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS

THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RETENSIONING OPERATIONS.
- IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE INSPECTIONS TO ALLOW THE FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ONE SITE VISIT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.

CORRECTION OF FAILING MIS

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN.

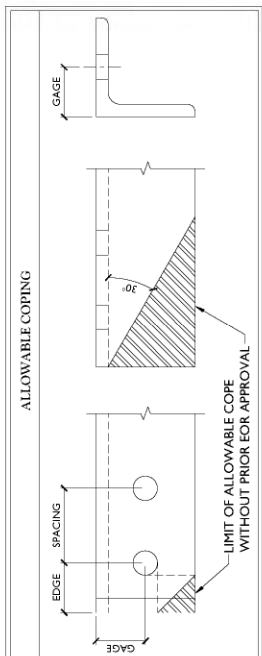
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

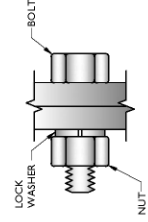
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/REINFORCEMENT
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FINAL INSPECTION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 11/16	1 11/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)	
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8

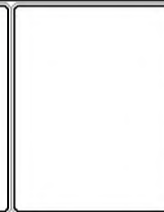


TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AS MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY DIMENSIONS AS SHOWN AND NOTIFY ENGINEER IF DIMENSIONS ARE LESS THAN THOSE PROVIDED.
 - THE DIMENSIONS PROVIDED ARE FOR THE MINIMUM REQUIREMENTS. DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE AS-BUILT MINIMUM REQUIREMENTS.
 - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
 - MATCH EXISTING GAGES WHEN APPLICABLE, UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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MODIFICATION NOTES

S-3

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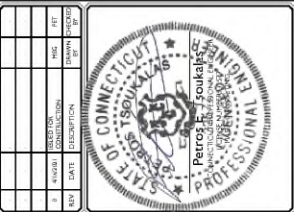
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CHECKED:		CHECKED:	
DESIGNED:		DESIGNED:	
APPROVED:		APPROVED:	

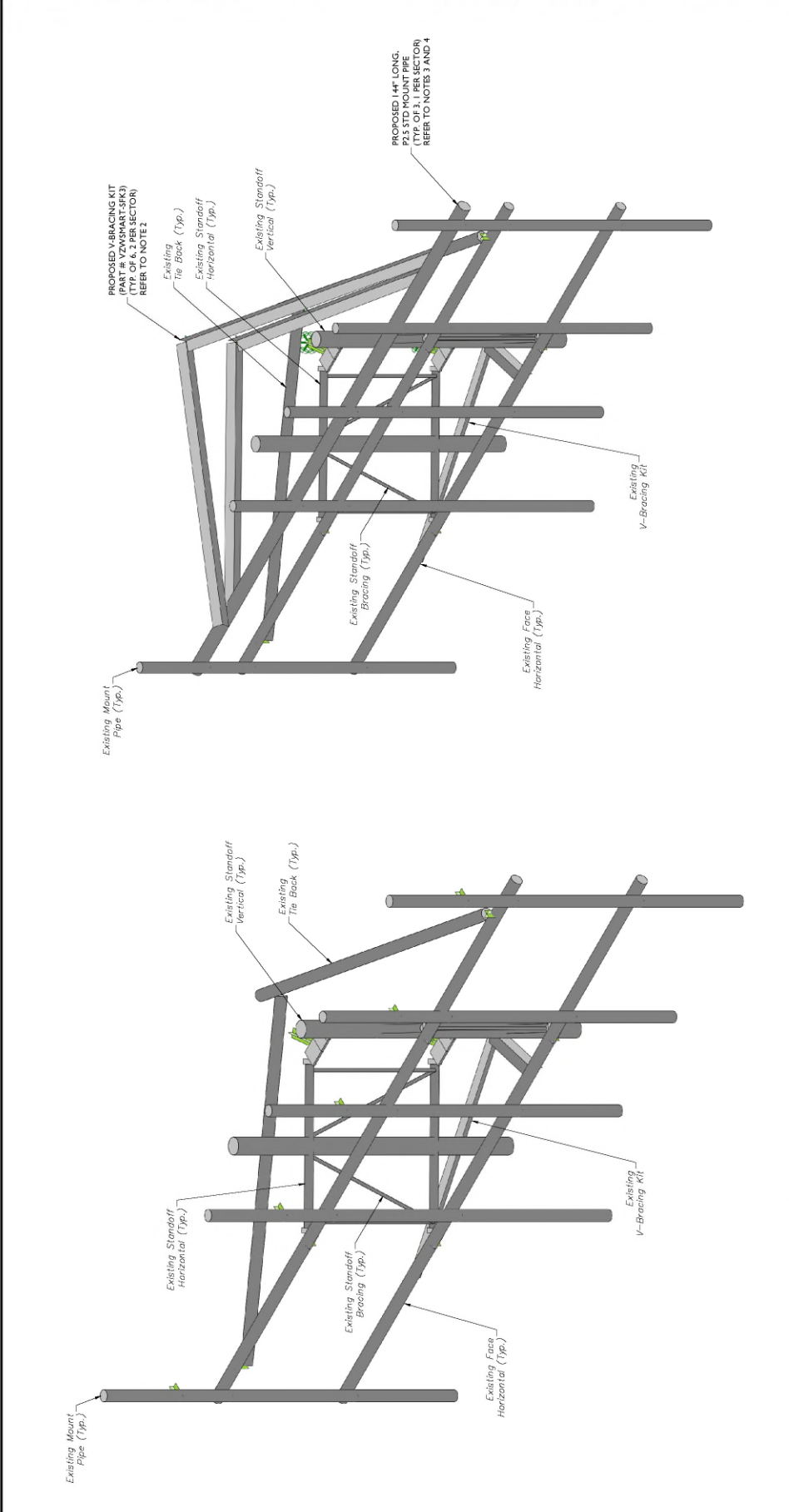


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MODIFICATION DETAILS



2 PROPOSED SECTOR FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE: N.T.S.

1 EXISTING SECTOR FRAME ISOMETRIC VIEW (TYP. ALL SECTORS)

SCALE: N.T.S.

MODIFICATION NOTES:

1. MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
2. CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S2.
3. CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
4. RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.

STRUCTURAL NOTES:

1. PER THE MOUNT MAPPING COMPLETED BY LEVEL-UP TOWERS ON 2/21/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (144'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

MARCUS CONSULTING GROUP, INC.
 1000 W. 10th Street
 Suite 100
 Des Moines, IA 50319
 Phone: 515.281.2500
 Fax: 515.281.2505
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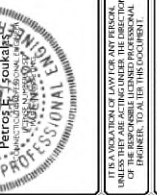


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DATE: 01/15/2013
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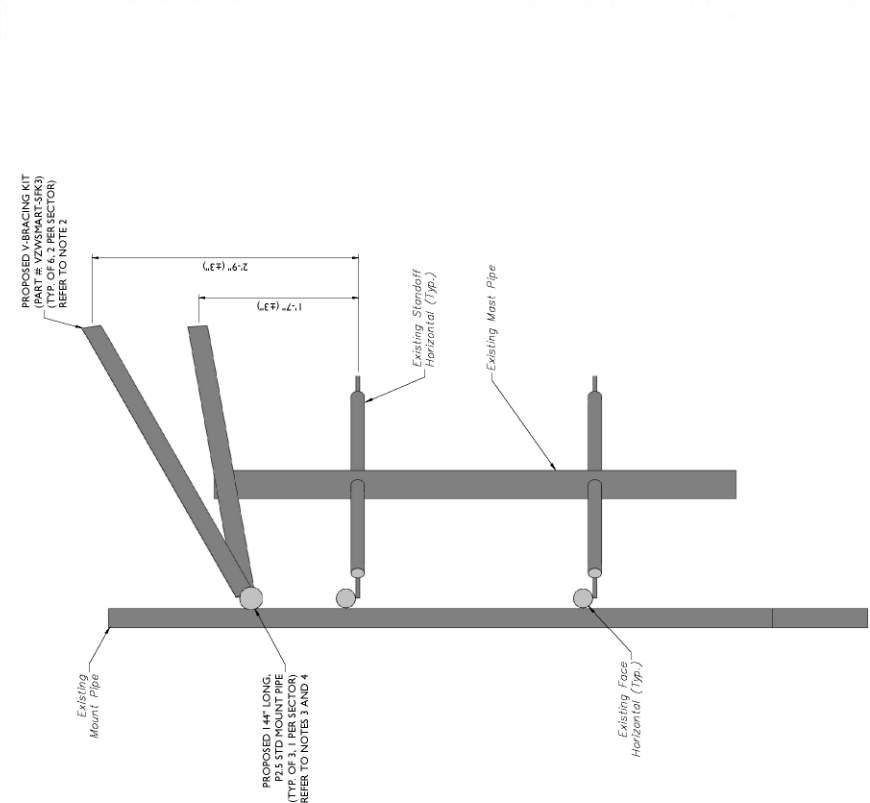
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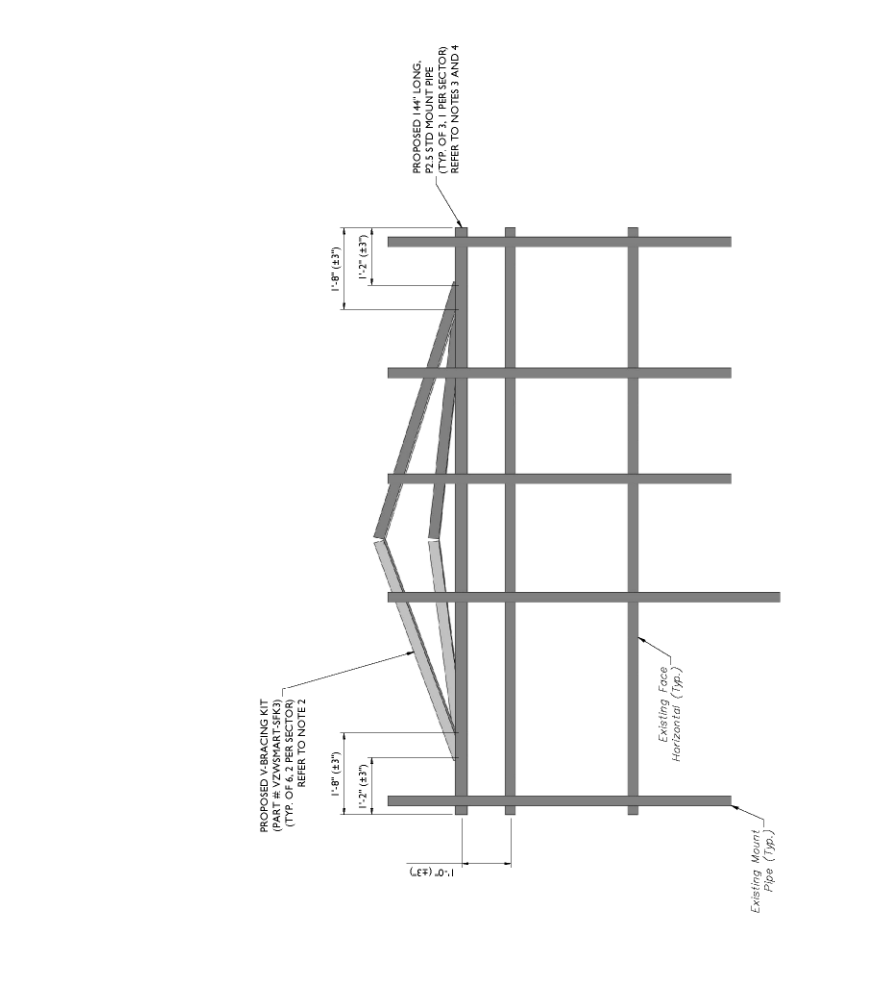
DATE: 01/15/2013

PROJECT: 11771000A

SHEET: S-5



2 PROPOSED SIDE ELEVATION (TYP. ALL SECTORS)
 SCALE: N.T.S.



1 PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)
 SCALE: N.T.S.

- MODIFICATION NOTES:**
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
 - CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
 - CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
 - RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.

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10		REVISION				

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 Petros J. Foukalis
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 Hartford, CT 06103
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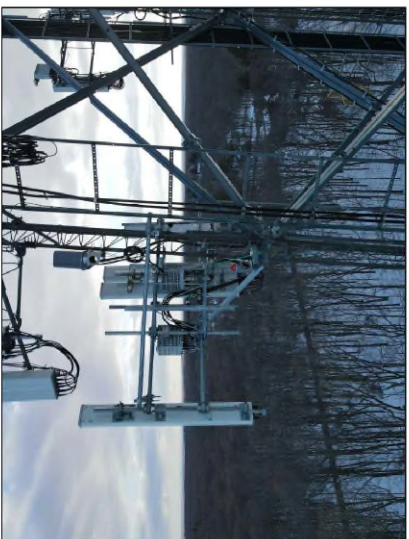
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MOUNT PHOTOS

S-6



MOUNT PHOTO 1



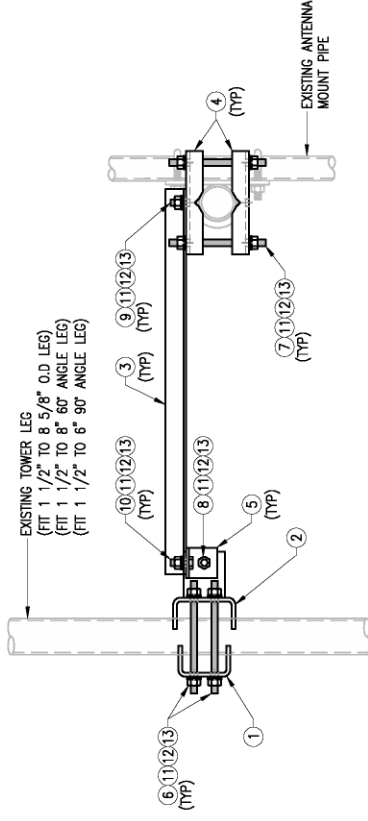
MOUNT PHOTO 2



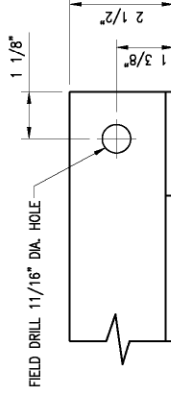
MOUNT PHOTO 3



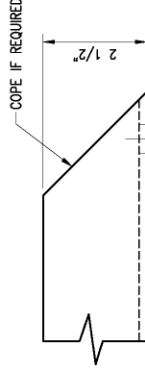
MOUNT PHOTO 4



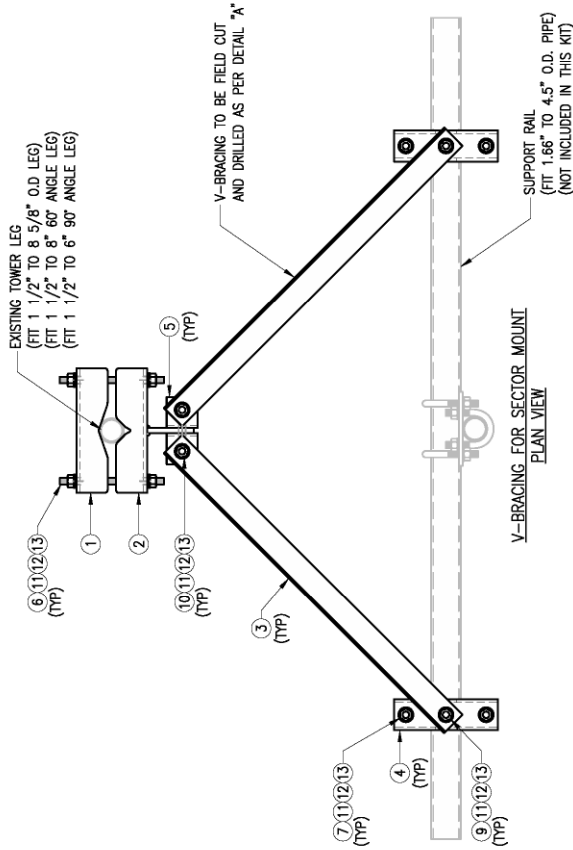
V-BRACING KIT - HORIZONTAL (OPTION-1)
 SIDE VIEW



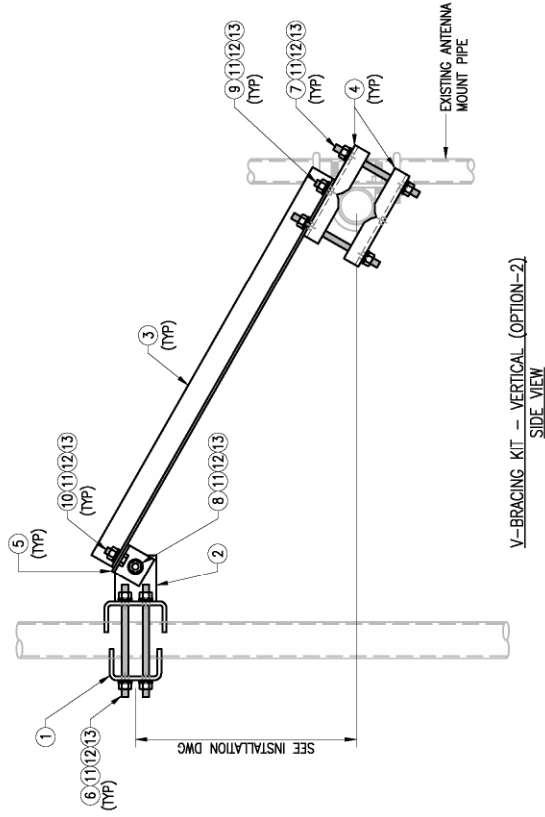
PLAN VIEW



FRONT VIEW
 DETAIL "A"



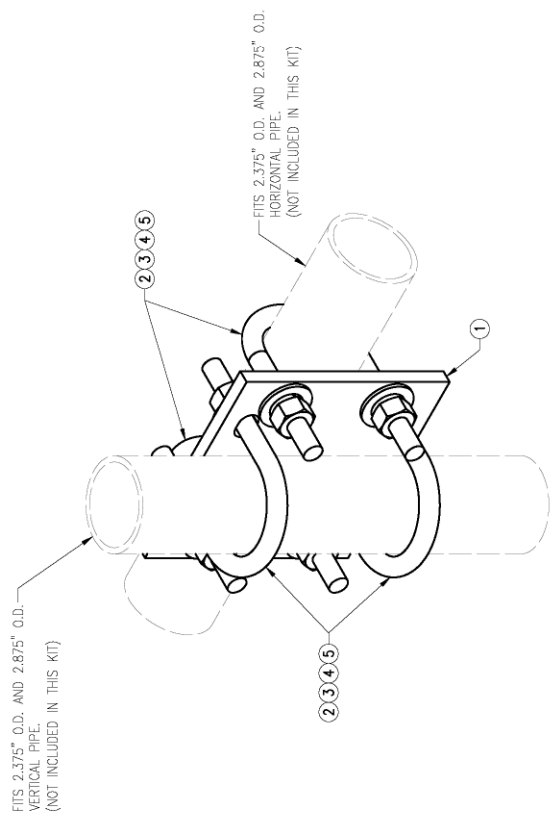
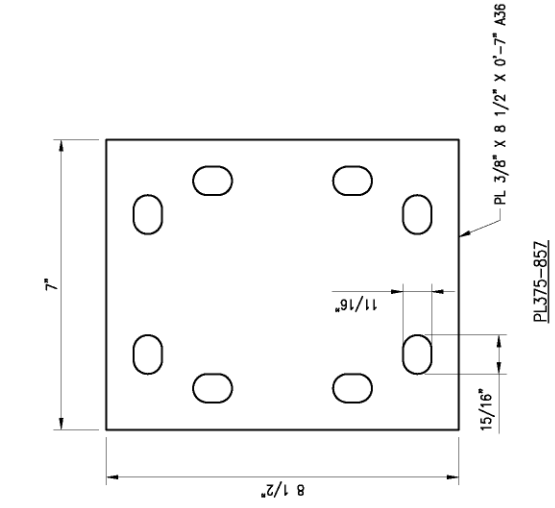
V-BRACING FOR SECTOR MOUNT
 PLAN VIEW



V-BRACING KIT - VERTICAL (OPTION-2)
 SIDE VIEW

VZWSMART-SFK3 (V-BRACING KIT)				SHEET #	WT
ITEM NO.	QTY.	PART NO.	DESCRIPTION		
1	1	BP9625-12	PL 3/8" X 9 5/8" X 1'-0" A36 BENT PLATE	VBSM-F1	12
2	1	BRKW-VBSM	WELDMENT BRACKET	VBSM-F3	16
3	2	L252525-8	L 2 1/2" X 2 1/2" X 1/4" X 8'-0" A36	VBSM-F5	67
4	4	BP6875-10	PL 3/8" X 6 7/8" X 10" A36 BENT PLATE	VBSM-F2	20
5	2	AL-333	L 3" X 3" X 1/4" X 3" A36	VBSM-F2	3
6	4	---	THREADED ROD 5/8" DIA. X 1'-6" F1554-36 HDG	---	---
7	4	---	BOLT 5/8" X 2 1/4" A325	---	---
8	1	---	BOLT 5/8" X 2" A325	---	---
9	2	---	BOLT 5/8" X 1 3/4" A325	---	---
10	2	---	5/8" HDG USS FLAT WASHER	---	---
11	21	FW-625	5/8" HDG LOCK WASHER	---	2
12	21	LW-625	5/8" HDG LOCK WASHER	---	0
13	21	NUT-625	5/8" HDG HEX NUT	---	2
				CALVANIZED WT	122

NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUJ-625	5/8" HDG HEX NUT	---	1
VZWSMART-MSK1 (CROSSOVER PLATE)				GALVANIZED WT 14	

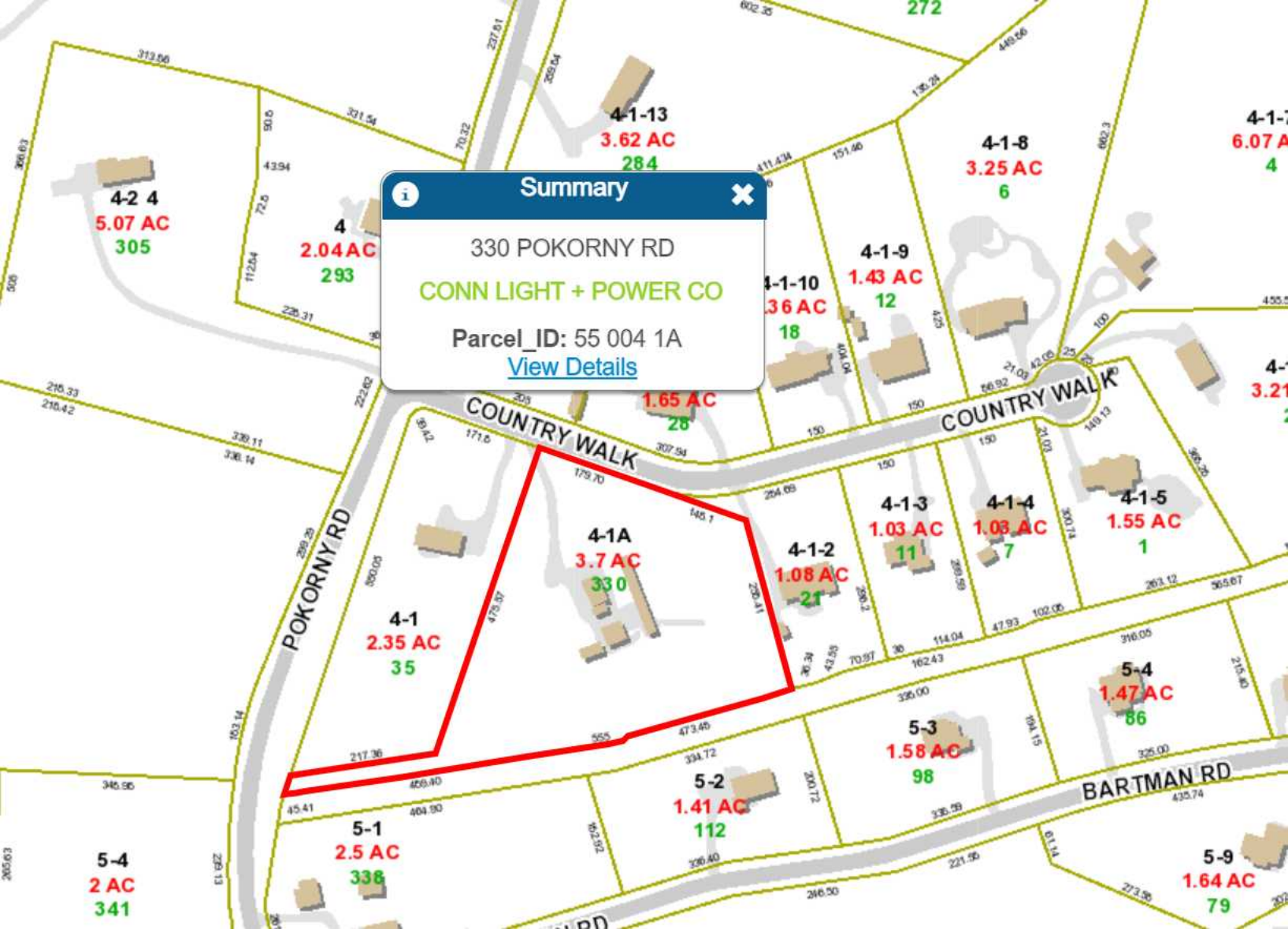
NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

ATTACHMENT 5

Summary

330 POKORNY RD
CONN LIGHT + POWER CO

Parcel_ID: 55 004 1A
[View Details](#)



The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2020.



Information on the Property Records for the Municipality of Haddam was last updated on 6/28/2022.

Property Summary Information

- Parcel Data And Values
- Building ▾
- Outbuildings
- Sales
- Permits

Parcel Information

Location:	330 POKORNY RD	Property Use:	Vacant Land	Primary Use:	Cell Tower
Unique ID:	P0506400	Map Block Lot:	55 004 1A	Acres:	3.7000
490 Acres:	0.00	Zone:	R-2A	Volume / Page:	0132/0086
Developers Map / Lot:		Census:	5901		

Value Information

	Appraised Value	Assessed Value
Land	109,500	76,650
Buildings	0	0
Detached Outbuildings	923,830	646,680
Total	1,033,330	723,330

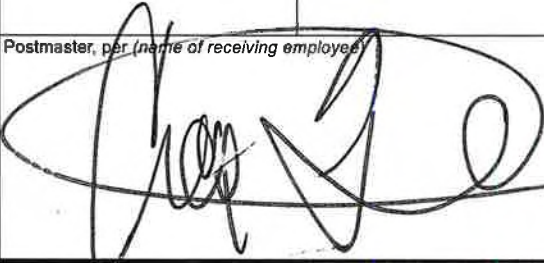

Owner's Information

Owner's Data
CONN LIGHT + POWER CO TAX DEPT PO BOX 270 HARTFORD, CT 06141

ATTACHMENT 6



HIGGANUM SOUTH
Certificate of Mailing — Firm

Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender 3	TOTAL NO. of Pieces Received at Post Office™ 3	Affix Stamp Here <i>Postmark with Date of Receipt.</i>		
	Postmaster, per (name of receiving employee) 				

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Robert McGarry, First Selectman Town of Haddam 30 Field Park Drive Haddam, CT 06438				
2.	Bill Warner, Town Planner Town of Haddam 30 Field Park Drive Haddam, CT 06438				
3.	Connecticut Light & Power P.O. Box 270 Hartford, CT 06101				
4.					
5.					
6.					